

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL010816\
 Data File : VL026653.D
 Acq On : 8 Jan 2016 19:20
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDIC015

Manual Integrations
 APPROVED

apatel
 1/11/2016 5:13:44 PM

Quant Time: Jan 08 23:15:52 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan 08
 QLast Update : Fri Jan 08 22:06:23 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.64	49	770895	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.31	114	2376958	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.73	117	3228946m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.27	95	2594449	9.97	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.70%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.63	85	3197684	15.59	ppbv	99
3) Chlorodifluoromethane	3.56	51	1410008	14.47	ppbv	95
4) Chloromethane	3.74	50	655640	13.03	ppbv	95
5) Vinyl Chloride	3.87	62	785181	13.83	ppbv	100
6) Bromomethane	4.13	94	621411	14.62	ppbv	98
7) Chloroethane	4.23	64	346180	13.63	ppbv	99
8) Dichlorotetrafluoroethane	3.79	85	2331742	14.91	ppbv	100
9) Propene	3.58	41	470097	12.62	ppbv	100
10) Heptane	9.34	43	1900000	14.04	ppbv	95
11) Trichlorofluoromethane	4.68	101	3313304	16.24	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	5.29	101	1961877	15.72	ppbv	98
13) Ethanol	4.31	45	89132	11.33	ppbv	96
14) Bromoethene	4.43	108	709168	15.05	ppbv	98
15) Acetone	4.59	43	1648945	14.63	ppbv	99
16) 1,3-Butadiene	3.95	39	704532	13.97	ppbv	97
17) tert-Butyl alcohol	5.11	59	1534628	14.66	ppbv	99
18) 1,1-Dichloroethene	5.07	96	816484	15.20	ppbv	100
19) Isopropyl Alcohol	4.73	45	757792	12.30	ppbv	100
20) Methylene Chloride	5.14	84	748554	15.31	ppbv	98
21) Allyl Chloride	5.21	41	1129640	14.52	ppbv	92
22) trans-1,2-Dichloroethene	5.75	96	900301	14.57	ppbv	97
23) Vinyl Acetate	5.97	43	2935237	14.42	ppbv	99
24) 1,1-Dichloroethane	5.90	63	1967278	14.40	ppbv	99
25) Ethyl Acetate	6.65	43	2833011	14.35	ppbv	100
26) Hexane	6.64	57	1439188	14.58	ppbv	98
27) Carbon Disulfide	5.37	76	2356452	15.03	ppbv	97
28) Methyl tert-Butyl Ether	5.93	73	3024198	14.87	ppbv	98
29) Chloroform	6.73	83	2801216	15.94	ppbv	99
30) Cyclohexane	8.26	84	1478167	14.67	ppbv	96
31) cis-1,2-Dichloroethene	6.50	61	1547088	14.75	ppbv	99
32) 1,1,1-Trichloroethane	7.58	97	3085439	16.26	ppbv	99
34) 2-Butanone	6.18	43	1675597	13.45	ppbv	97
35) Carbon Tetrachloride	8.15	117	3104046	15.85	ppbv	99
36) Benzene	8.01	78	3333585	13.89	ppbv	98
37) 1,2-Dichloroethane	7.36	62	2535985	15.50	ppbv	98
38) Trichloroethene	9.05	130	1294598	13.88	ppbv	98
39) 1,2-Dichloropropane	8.81	63	1129560	13.61	ppbv	92
40) 1,4-Dioxane	9.09	88	325829	12.38	ppbv	81
41) Tetrahydrofuran	7.10	42	876732	13.27	ppbv	97
42) Bromodichloromethane	9.01	83	3225290	15.14	ppbv	99
43) Methyl Methacrylate	9.25	69	1355857	14.33	ppbv	97

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Quant Time: Jan 08 23:15:52 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan 08
 QLast Update : Fri Jan 08 22:06:23 2016
 Response via : Initial Calibration

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

44) 2,2,4-Trimethylpentane	9.07	57	5084270	13.51	ppbv	97
45) t-1,3-Dichloropropene	10.63	75	2467046	15.15	ppbv	98
46) cis-1,3-Dichloropropene	10.00	75	2606845	14.78	ppbv	97
47) 1,1,2-Trichloroethane	10.86	97	1683095	14.57	ppbv	99
48) Dibromochloromethane	11.79	129	2838141	15.50	ppbv	100
49) Bromoform	14.80	173	2376145	15.52	ppbv	99
50) 4-Methyl-2-Pentanone	10.07	43	2552848	13.86	ppbv	99
51) 2-Hexanone	11.59	43	2562444	14.25	ppbv #	100
52) Tetrachloroethene	12.77	164	1548268	14.74	ppbv	98
53) Toluene	11.21	91	4982460	14.55	ppbv	100
54) 1,2-Dibromoethane	12.12	107	2746509	15.08	ppbv	99
56) 1,1,1,2-Tetrachloroethane	13.77	131	2032684	14.26	ppbv	88
57) Chlorobenzene	13.79	112	4097638	13.60	ppbv	99
58) Ethyl Benzene	14.39	91	7962982	13.82	ppbv	100
59) m/p-Xylene	14.69	91	12251889	27.42	ppbv	100
60) o-Xylene	15.47	91	6341133	13.70	ppbv	99
61) Styrene	15.29	104	3152580	14.31	ppbv	99
62) Isopropylbenzene	16.52	105	9001606	13.97	ppbv	100
63) 1,1,2,2-Tetrachloroethane	15.47	83	3995672	13.48	ppbv	99
64) n-propylbenzene	17.50	120	2422331	14.18	ppbv	93
65) tert-Butylbenzene	18.79	119	7455878	13.89	ppbv	98
66) Benzyl Chloride	19.08	91	3652608	14.66	ppbv	99
67) sec-Butylbenzene	19.39	105	11640745	13.94	ppbv	99
69) p-Isopropyltoluene	19.77	119	9349839	14.23	ppbv	99
70) n-Butylbenzene	20.74	91	9880127	14.28	ppbv	99
71) 2-Chlorotoluene	17.41	91	7419733	14.15	ppbv	99
72) 4-Ethyltoluene	17.80	105	8018511	14.23	ppbv	99
73) 1,3,5-Trimethylbenzene	17.97	105	7425592	14.34	ppbv	100
74) 1,2,4-Trimethylbenzene	18.82	105	6966468	13.81	ppbv	97
75) 1,3-Dichlorobenzene	19.10	146	4446774	14.15	ppbv	99
76) 1,4-Dichlorobenzene	19.25	146	4764037	14.40	ppbv	100
77) 1,2-Dichlorobenzene	20.00	146	4792476	14.60	ppbv	99
78) Hexachloro-1,3-Butadiene	24.65	225	1798500	13.74	ppbv	99
79) Naphthalene	23.91	128	5852747	14.82	ppbv	99
80) Naphthalene, 2-methyl-	26.02	142	828078	8.21	ppbv #	94
81) 1,2,4-Trichlorobenzene	23.71	180	2510688	14.73	ppbv	99

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

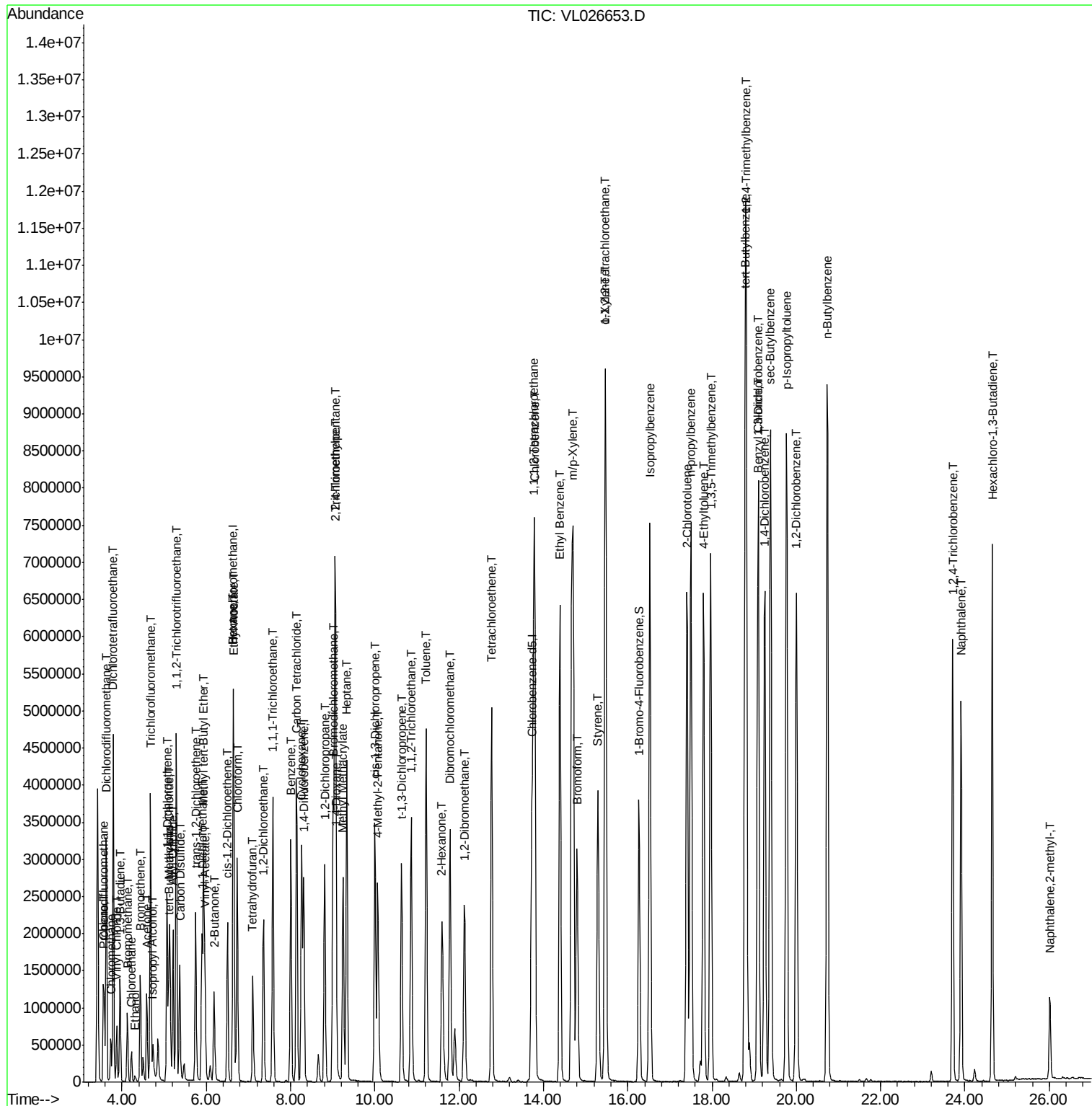
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Data Path : W:\HPCHEM1\MSVOA L\DATA\VL010816\  
Data File : VL026653.D  
Acq On    : 8 Jan 2016 19:20  
Operator  : SY/AP  
Sample    : VSTDICC015  
Misc      : 400mL/MSVOA L  
ALS Vial  : 1 Sample Multiplier: 1
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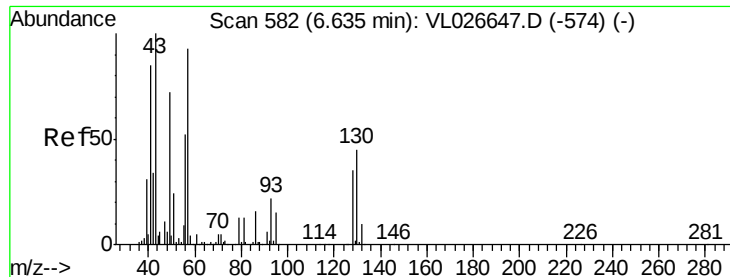
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

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Quant Time: Jan 08 23:15:52 2016
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Jan
QLast Update : Fri Jan 08 22:06:23 2016
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 49 Resp: 770895

Ion Ratio Lower Upper

49 100

128 52.7 25.9 77.7

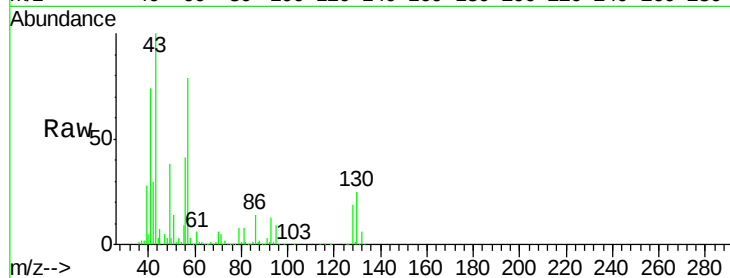
130 67.8 33.6 100.8

Manual Integrations

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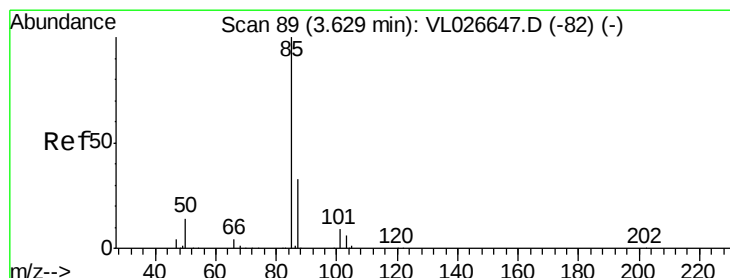
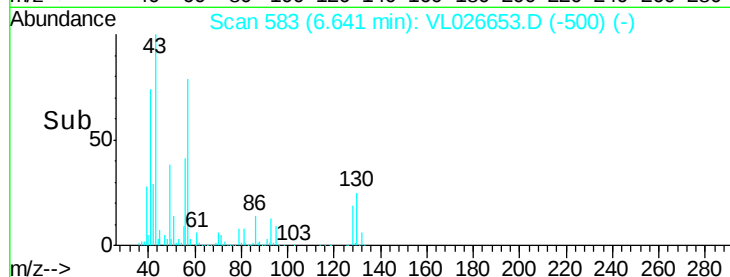
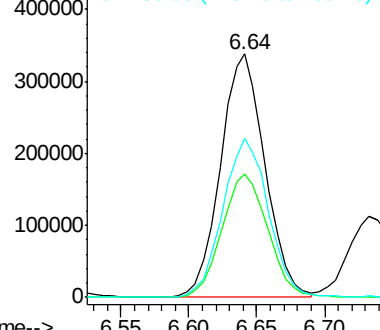
1/11/2016 5:13:44 PM



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: 15.59 ppbv

RT: 3.63 min Scan# 89

Delta R.T. 0.00 min

Lab File: VL026653.D

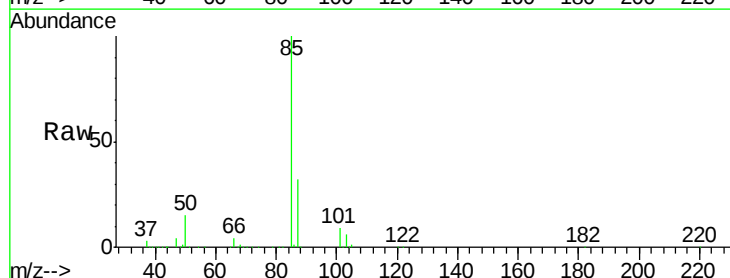
Acq: 8 Jan 2016 19:20

Tgt Ion: 85 Resp: 3197684

Ion Ratio Lower Upper

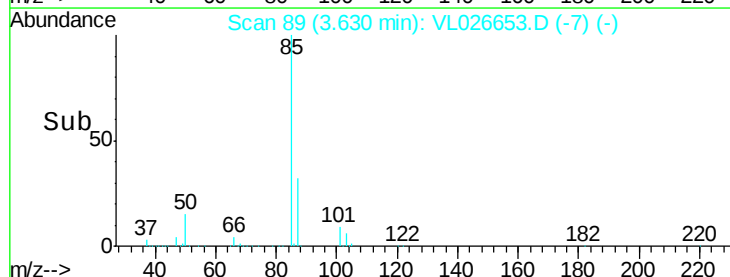
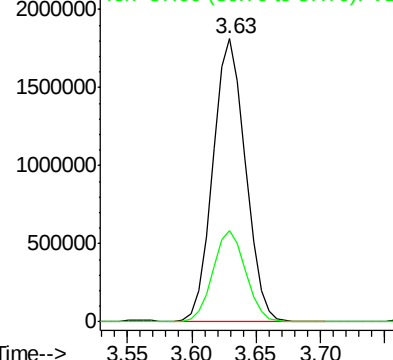
85 100

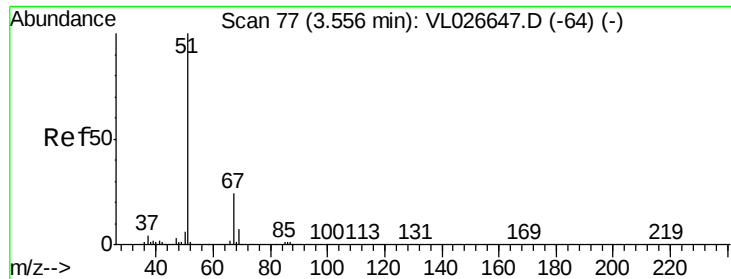
87 32.4 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 14.47 ppbv

RT: 3.56 min Scan# 77

Delta R.T. 0.00 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Tot Ion: 51 Resp: 1410008

Ion Ratio Lower Upper

51 100

67 25.6 18.6 28.0

Instrument :

MSVOA_L

ClientSampleId :

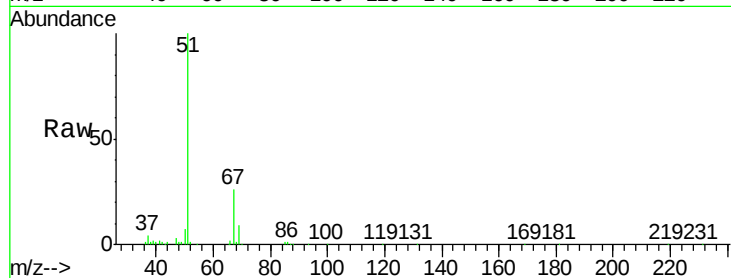
VSTDIC015

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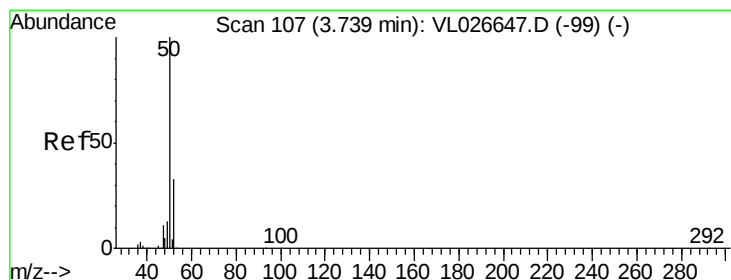
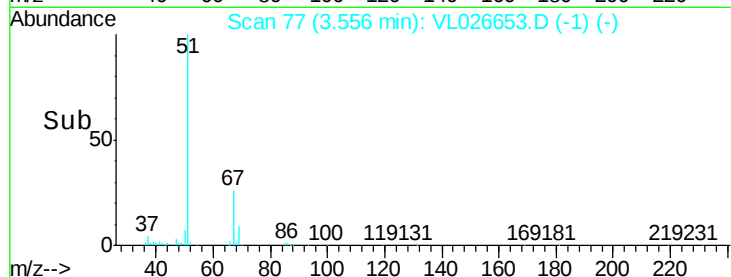
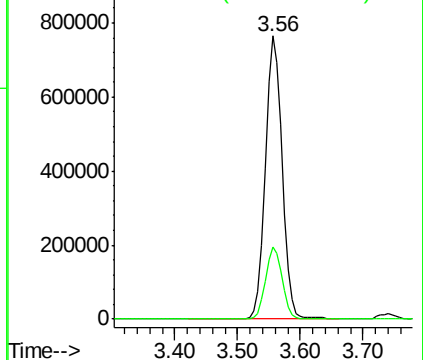
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 13.03 ppbv

RT: 3.74 min Scan# 107

Delta R.T. 0.00 min

Lab File: VL026653.D

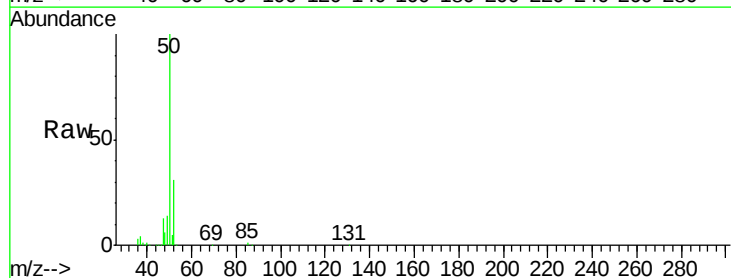
Acq: 8 Jan 2016 19:20

Tgt Ion: 50 Resp: 655640

Ion Ratio Lower Upper

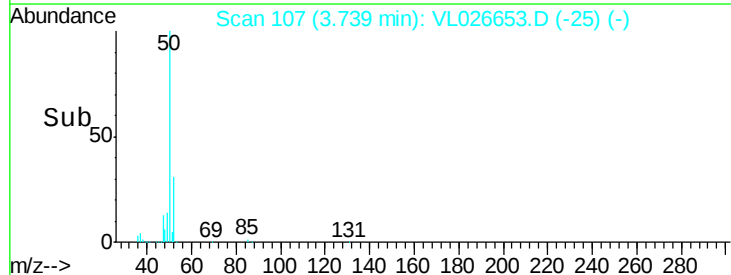
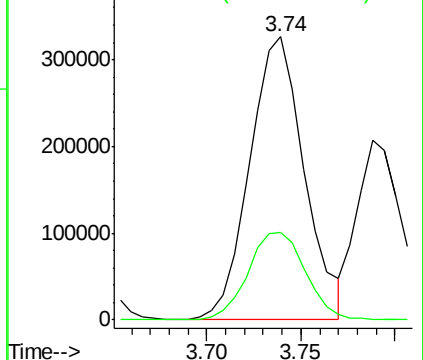
50 100

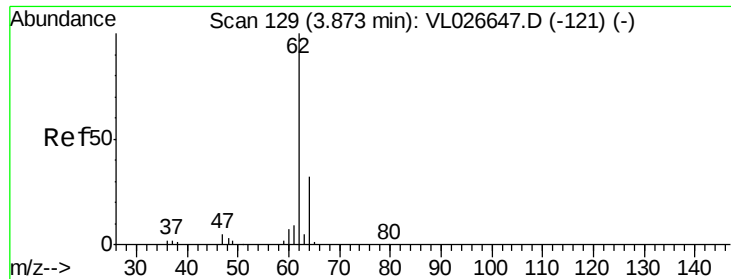
52 30.8 26.7 40.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 13.83 ppbv

RT: 3.87 min Scan# 129

Delta R.T. 0.00 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Instrument :

MSVOA_L

ClientSampleID :

VSTDIC015

Tot Ion: 62 Resp: 785181

Ion Ratio Lower Upper

62 100

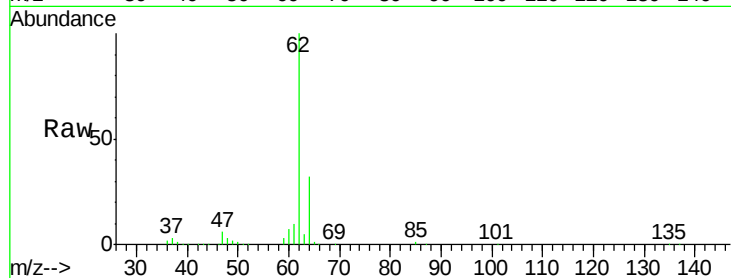
64 31.9 25.6 38.4

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.87

400000

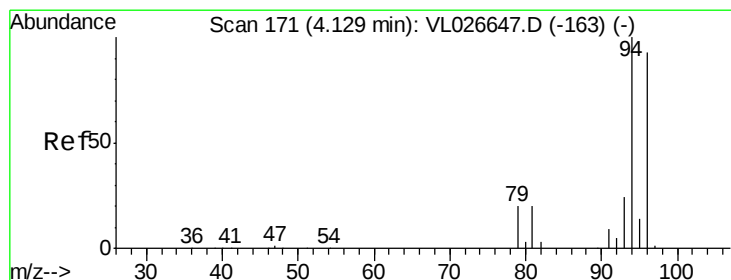
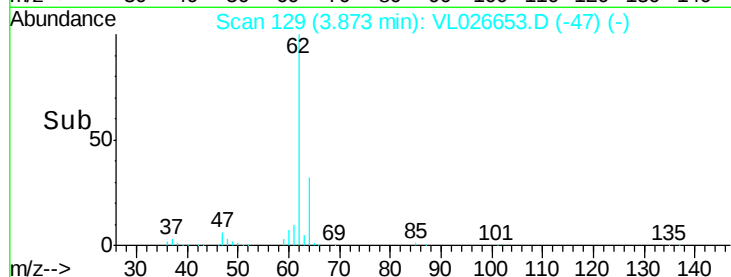
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 14.62 ppbv

RT: 4.13 min Scan# 171

Delta R.T. 0.00 min

Lab File: VL026653.D

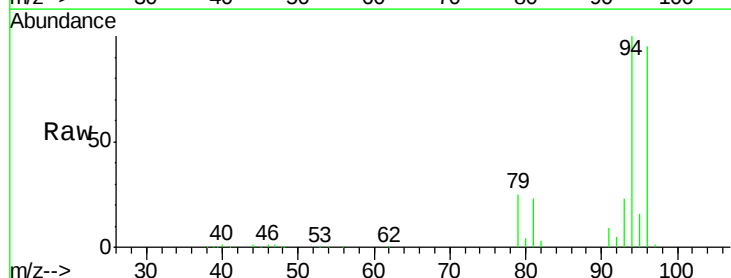
Acq: 8 Jan 2016 19:20

Tgt Ion: 94 Resp: 621411

Ion Ratio Lower Upper

94 100

96 94.8 74.6 112.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

4.13

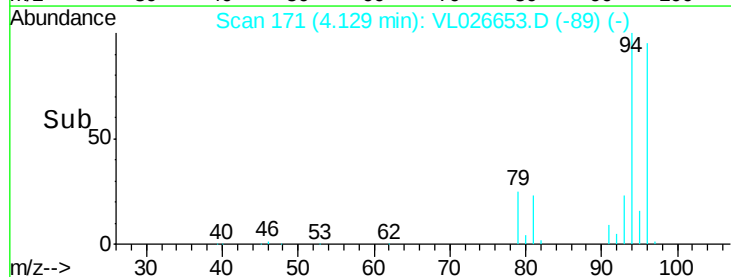
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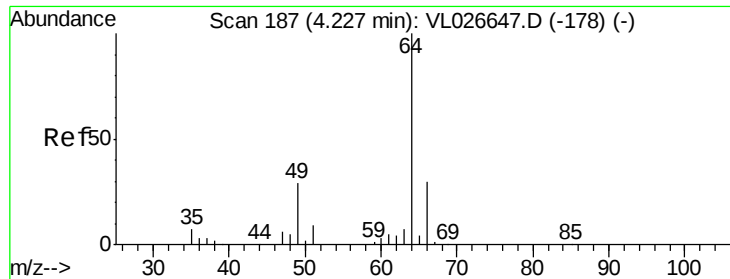
200000

100000

0

Time-->





#7

Chloroethane

Concen: 13.63 ppbv

RT: 4.23 min Scan# 187

Delta R.T. 0.00 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 346180

Ion Ratio Lower Upper

64 100

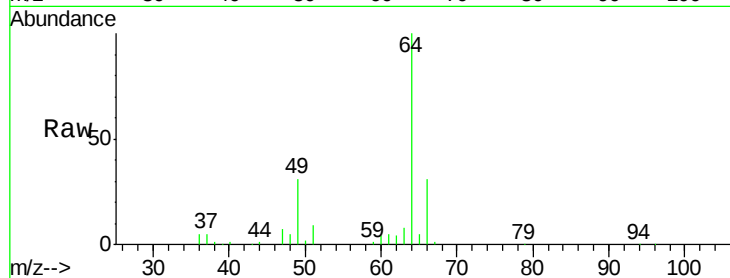
66 31.1 24.3 36.5

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

4.23

200000

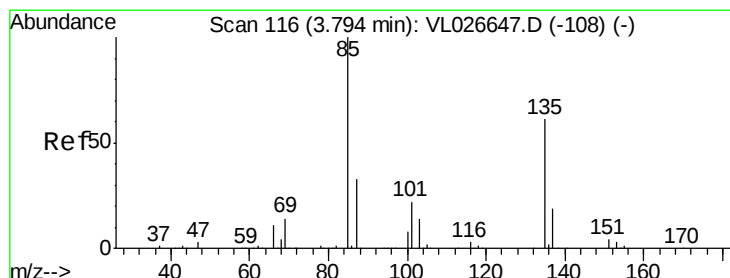
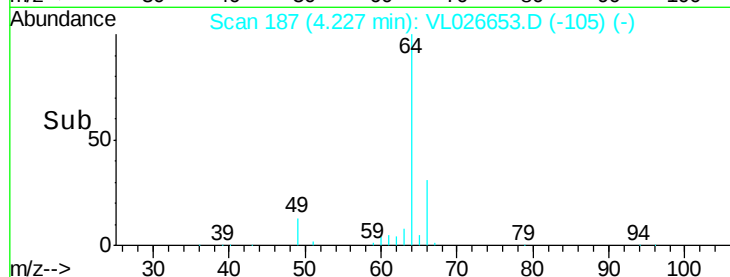
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100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 14.91 ppbv

RT: 3.79 min Scan# 116

Delta R.T. 0.00 min

Lab File: VL026653.D

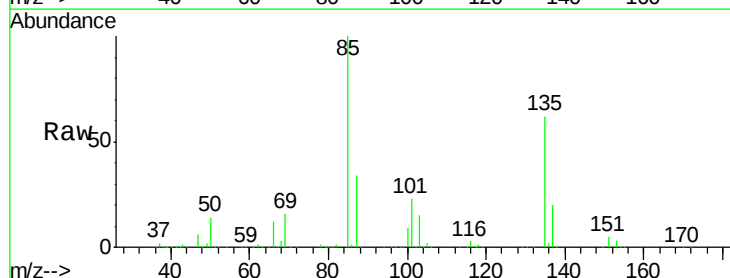
Acq: 8 Jan 2016 19:20

Tgt Ion: 85 Resp: 2331742

Ion Ratio Lower Upper

85 100

135 62.5 49.8 74.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.79

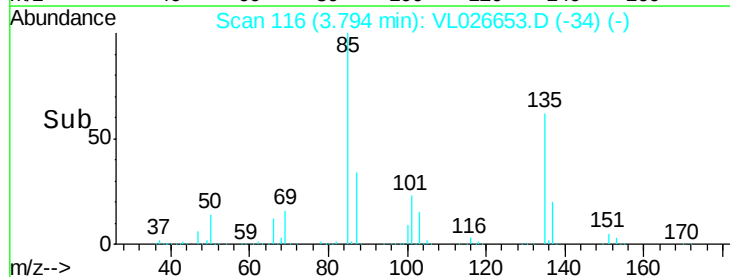
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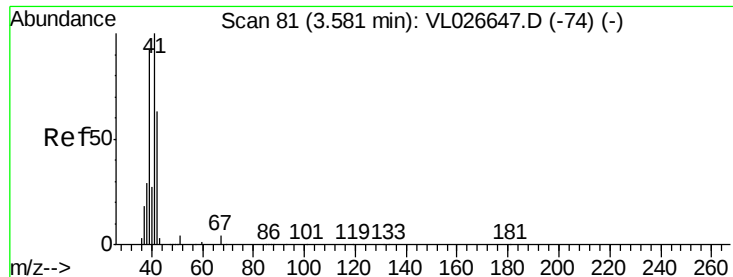
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500000

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Time-->





#9

Propene

Concen: 12.62 ppbv

RT: 3.58 min Scan# 81

Delta R.T. 0.00 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 470097

Ion Ratio Lower Upper

41 100

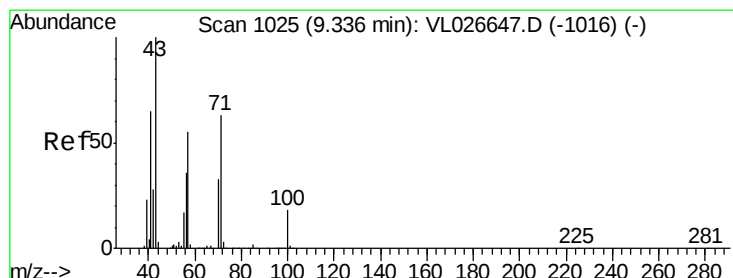
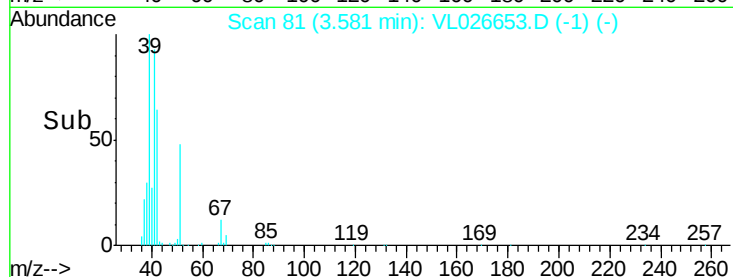
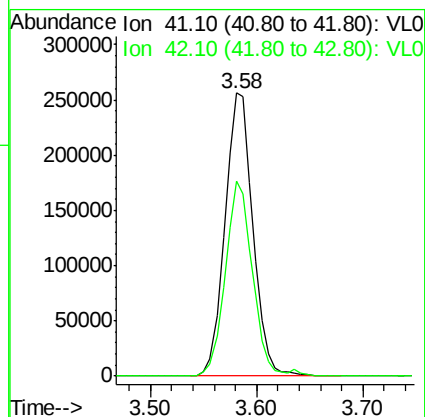
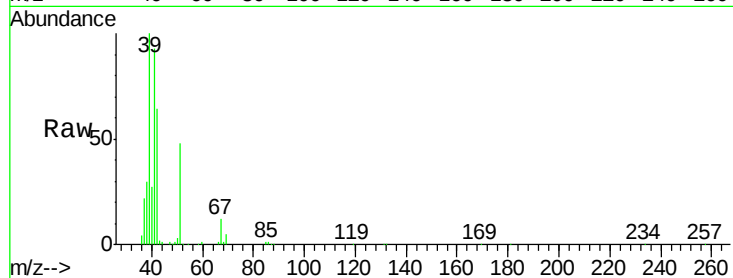
42 67.3 53.6 80.4

Manual Integrations

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#10

Heptane

Concen: 14.04 ppbv

RT: 9.34 min Scan# 1025

Delta R.T. 0.00 min

Lab File: VL026653.D

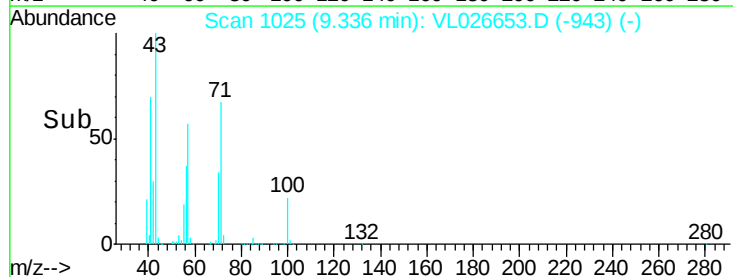
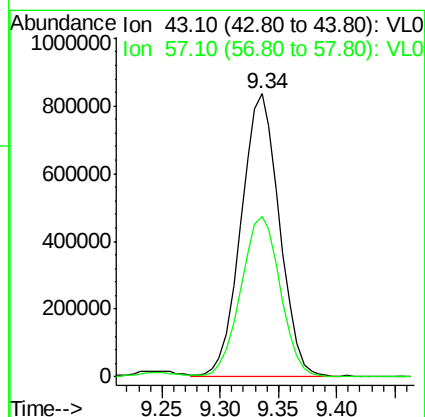
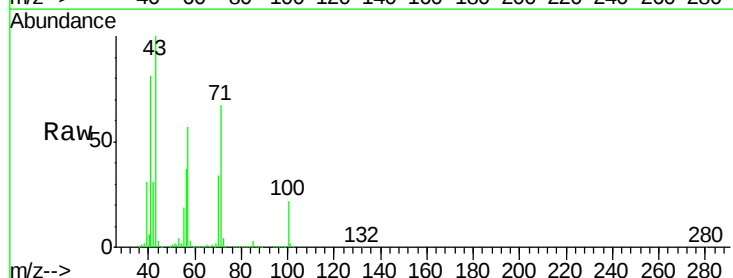
Acq: 8 Jan 2016 19:20

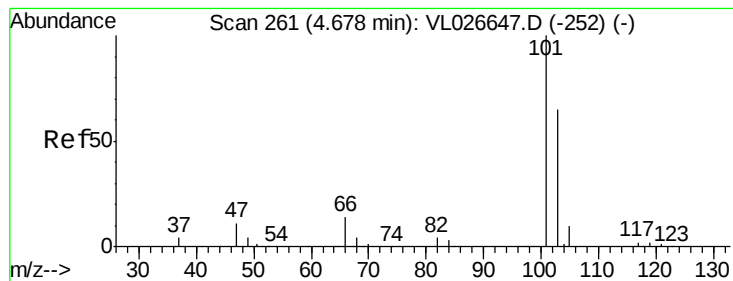
Tgt Ion: 43 Resp: 1900000

Ion Ratio Lower Upper

43 100

57 60.6 45.8 68.6





#11

Trichlorofluoromethane

Concen: 16.24 ppbv

RT: 4.68 min Scan# 261

Delta R.T. 0.00 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:101 Resp: 3313304

Ion Ratio Lower Upper

101 100

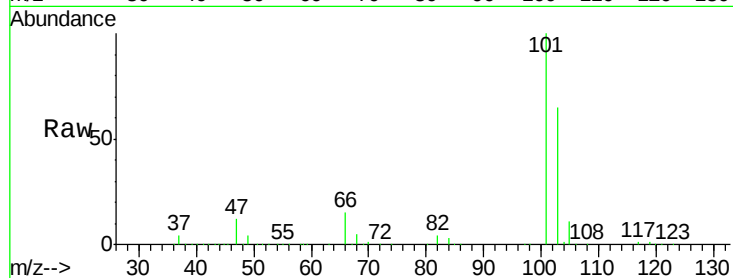
103 65.0 51.7 77.5

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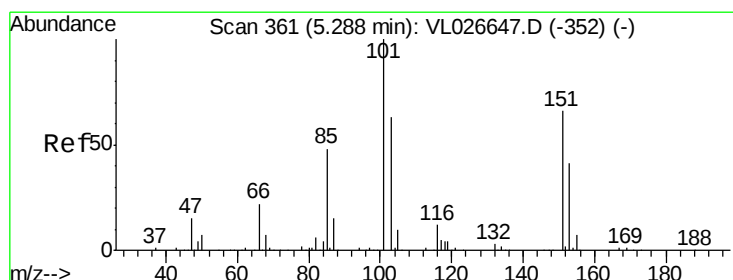
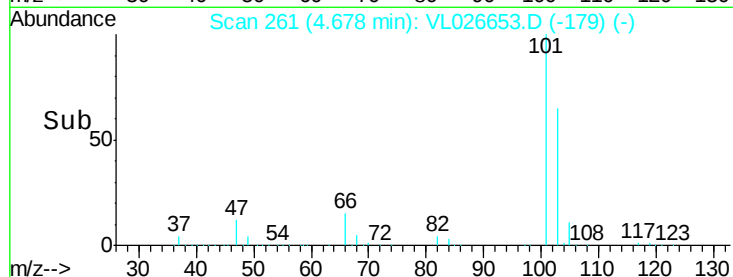
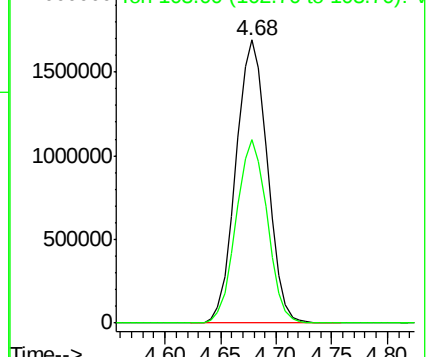
apatel

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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: 15.72 ppbv

RT: 5.29 min Scan# 361

Delta R.T. 0.00 min

Lab File: VL026653.D

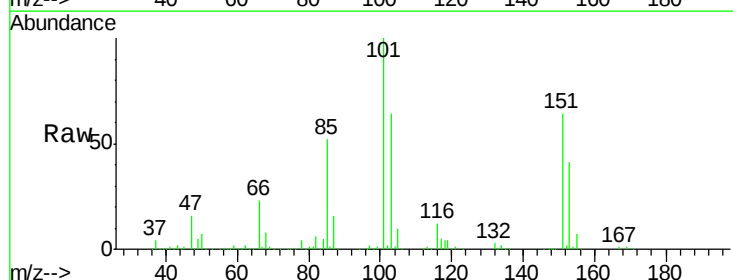
Acq: 8 Jan 2016 19:20

Tgt Ion:101 Resp: 1961877

Ion Ratio Lower Upper

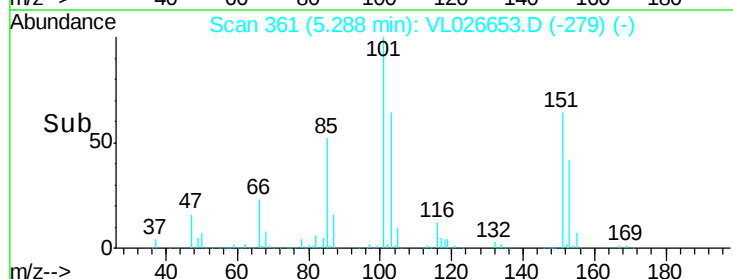
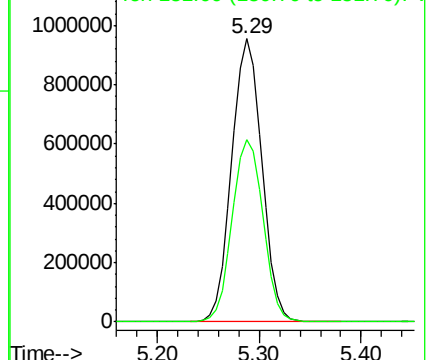
101 100

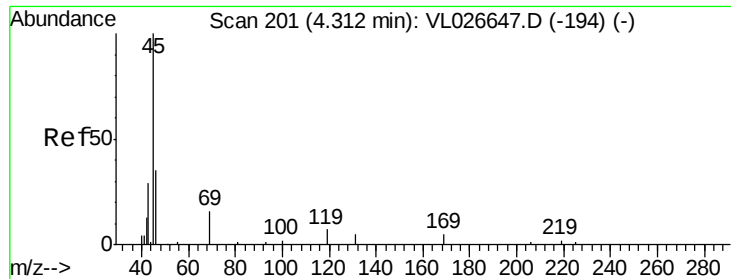
151 66.1 54.2 81.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 11.33 ppbv

RT: 4.31 min Scan# 200

Delta R.T. -0.01 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Tot Ion: 45 Resp: 89132

Ion Ratio Lower Upper

45 100

46 44.3 16.7 66.7

Instrument :

MSVOA_L

ClientSampleId :

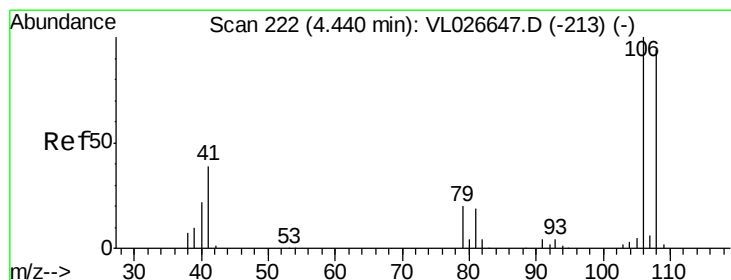
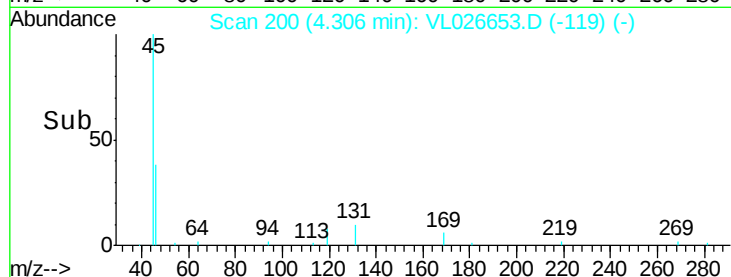
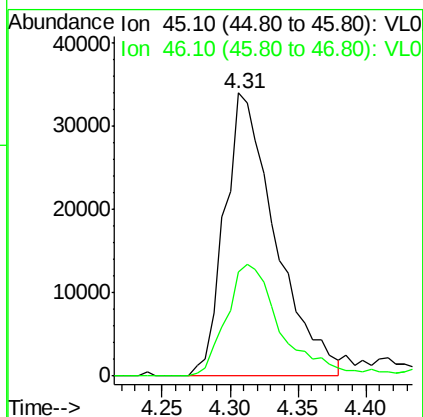
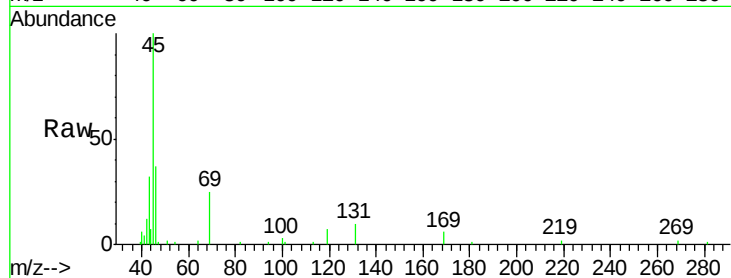
VSTDIC015

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#14

Bromoethene

Concen: 15.05 ppbv

RT: 4.43 min Scan# 221

Delta R.T. -0.01 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

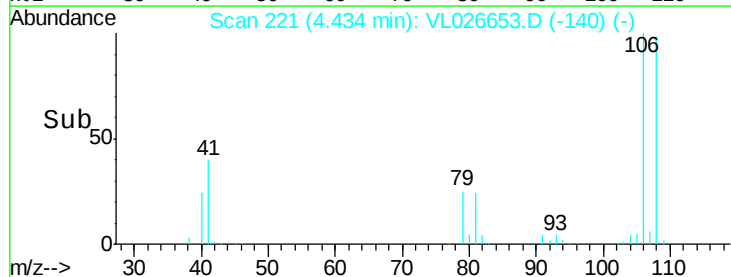
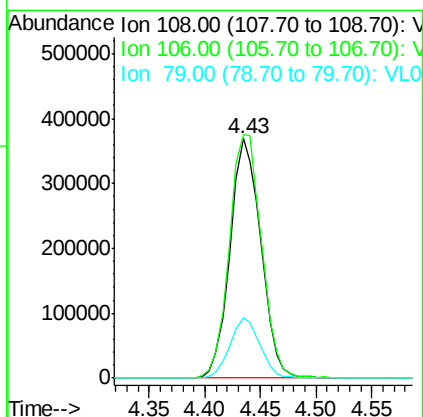
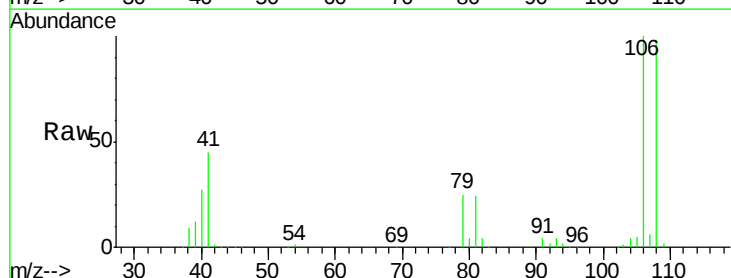
Tgt Ion: 108 Resp: 709168

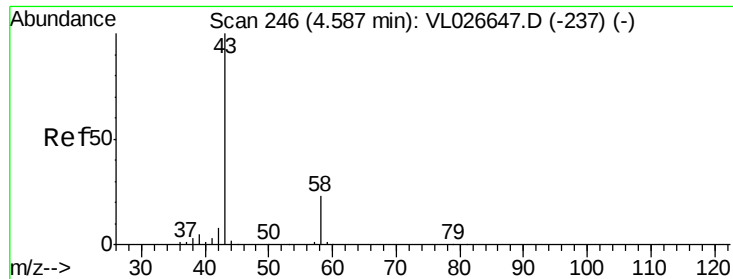
Ion Ratio Lower Upper

108 100

106 106.4 86.3 129.5

79 24.9 17.3 25.9





#15

Acetone

Concen: 14.63 ppbv

RT: 4.59 min Scan# 246

Delta R.T. 0.00 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 1648945

Ion Ratio Lower Upper

43 100

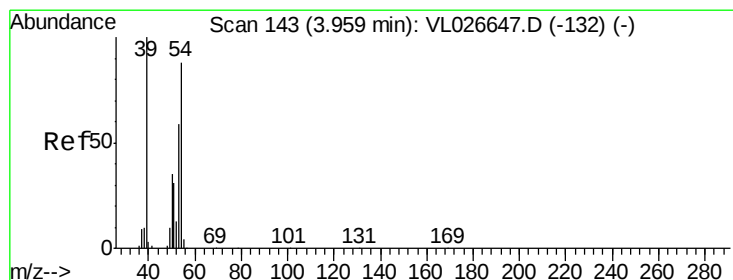
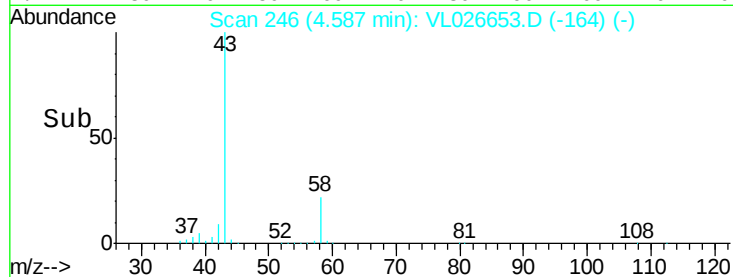
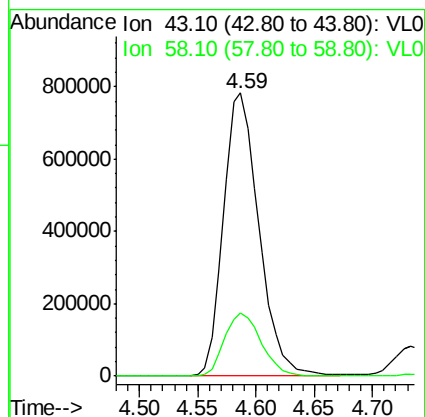
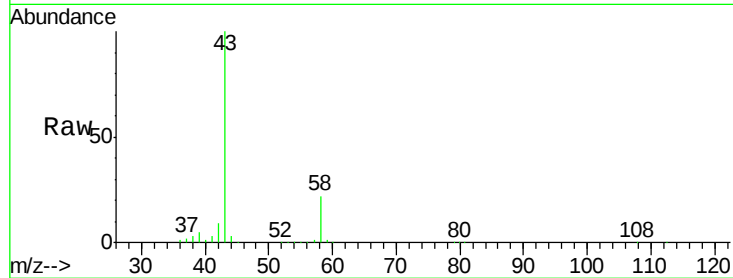
58 23.5 19.2 28.8

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#16

1,3-Butadiene

Concen: 13.97 ppbv

RT: 3.95 min Scan# 142

Delta R.T. -0.01 min

Lab File: VL026653.D

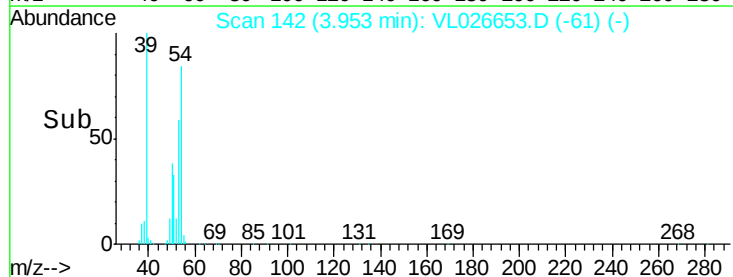
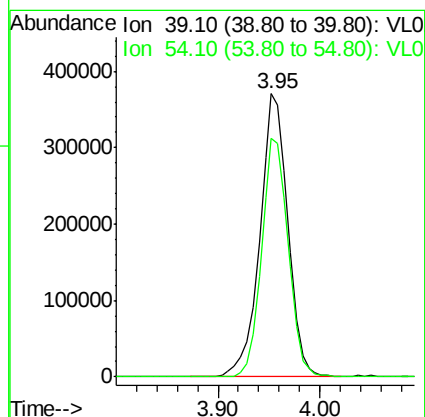
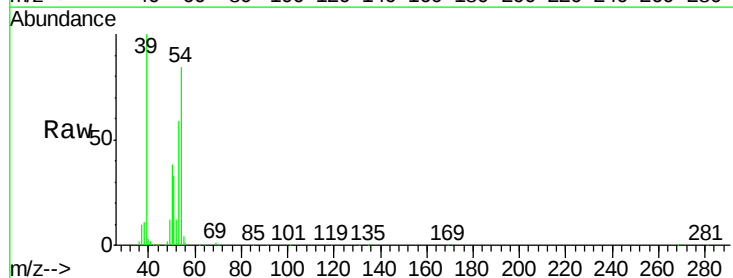
Acq: 8 Jan 2016 19:20

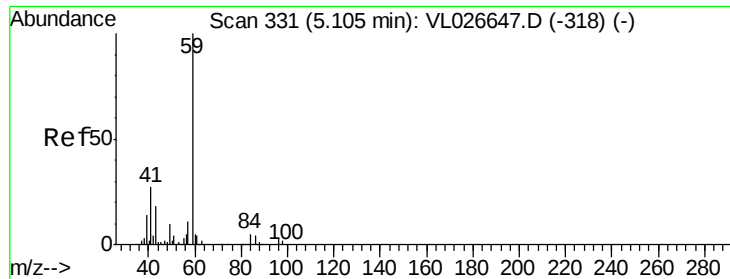
Tgt Ion: 39 Resp: 704532

Ion Ratio Lower Upper

39 100

54 80.7 66.4 99.6





#17

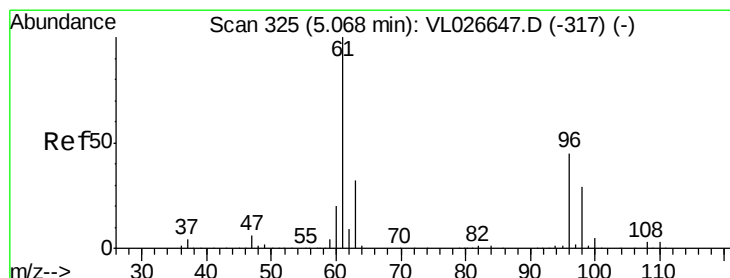
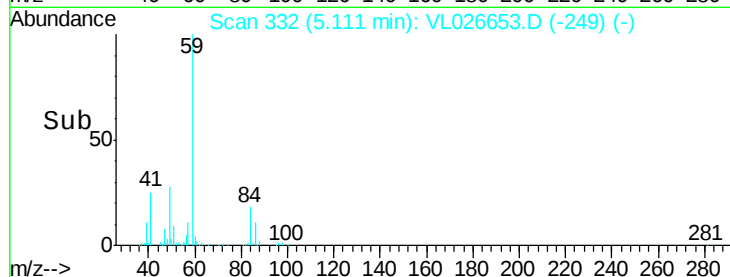
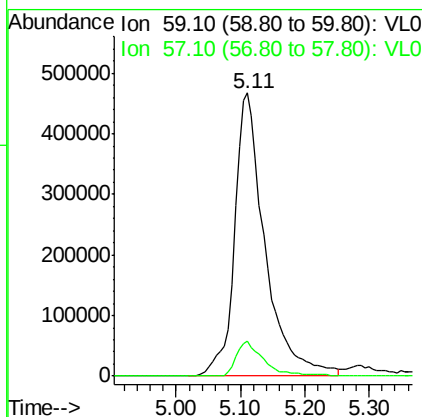
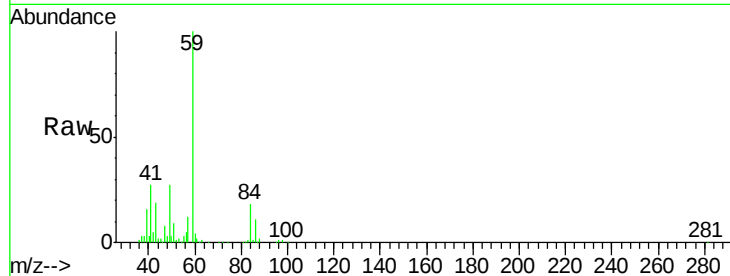
tert-Butyl alcohol
 Concen: 14.66 ppbv
 RT: 5.11 min Scan# 332
 Delta R.T. 0.01 min
 Lab File: VL026653.D
 Acq: 8 Jan 2016 19:20

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC015

Tot Ion: 59 Resp: 1534628
 Ion Ratio Lower Upper
 59 100
 57 11.4 8.9 13.3

Manual Integrations
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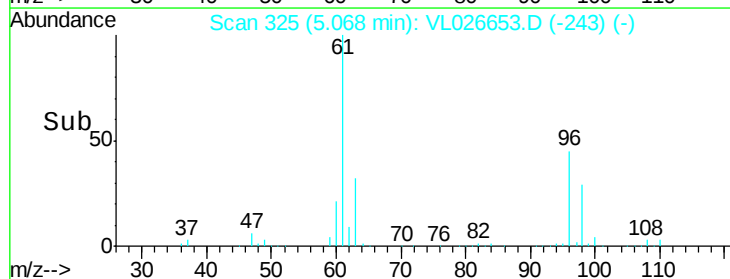
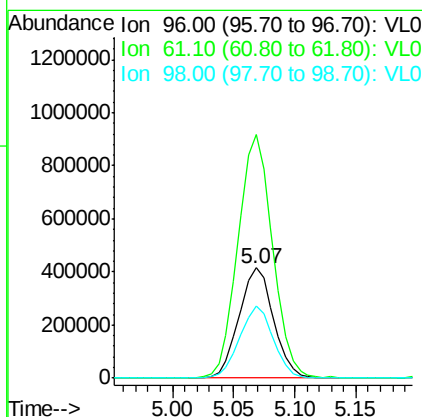
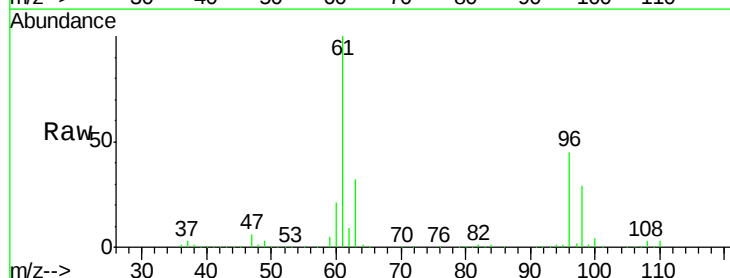
apatel
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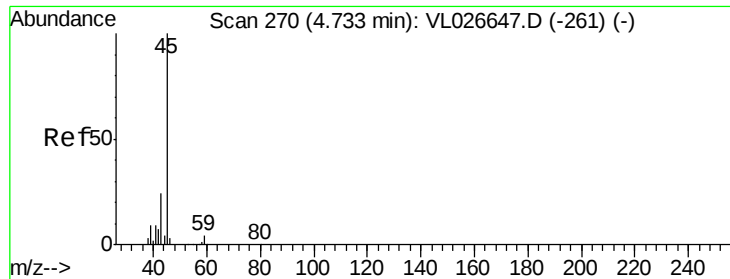


#18

1,1-Dichloroethene
 Concen: 15.20 ppbv
 RT: 5.07 min Scan# 325
 Delta R.T. 0.00 min
 Lab File: VL026653.D
 Acq: 8 Jan 2016 19:20

Tgt Ion: 96 Resp: 816484
 Ion Ratio Lower Upper
 96 100
 61 221.4 176.7 265.1
 98 65.0 51.8 77.6





#19

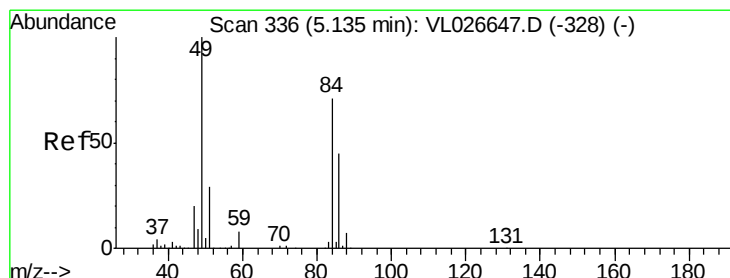
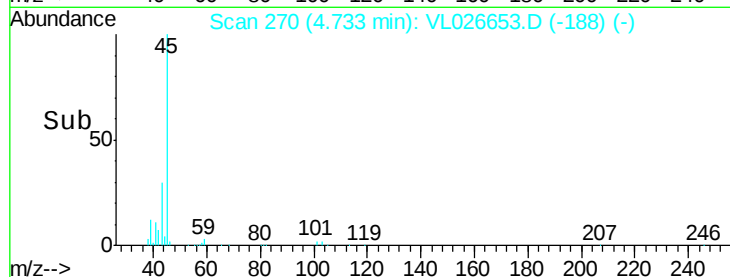
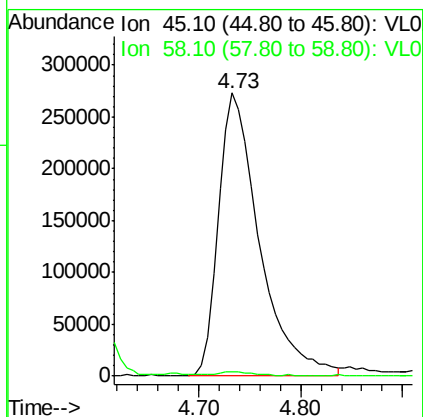
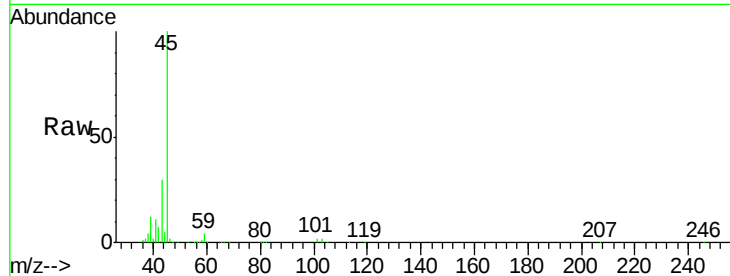
Isopropyl Alcohol
 Concen: 12.30 ppbv
 RT: 4.73 min Scan# 270
 Delta R.T. 0.00 min
 Lab File: VL026653.D
 Acq: 8 Jan 2016 19:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
45	100		
58	1.7	1.2	1.8

Manual Integrations
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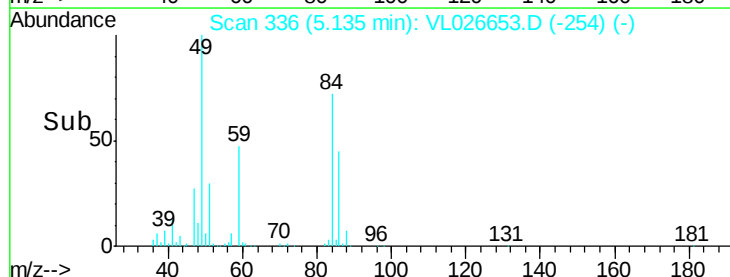
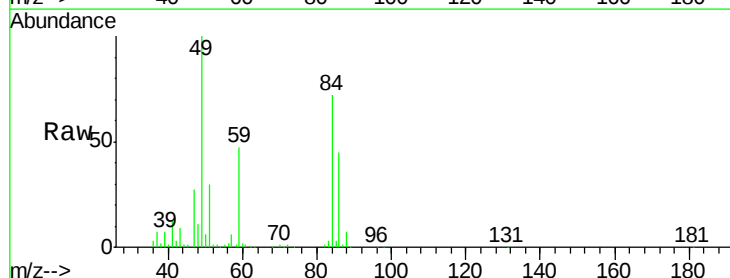
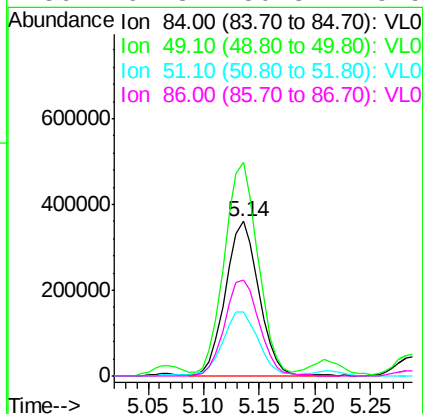
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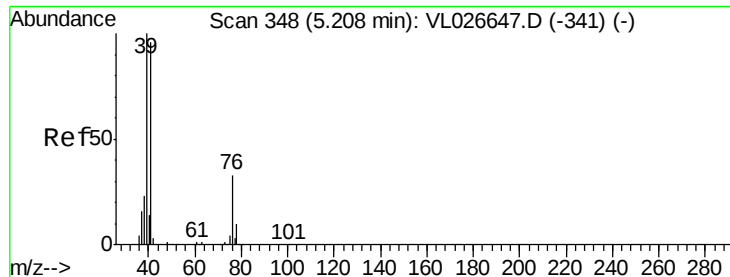


#20

Methylene Chloride
 Concen: 15.31 ppbv
 RT: 5.14 min Scan# 336
 Delta R.T. 0.00 min
 Lab File: VL026653.D
 Acq: 8 Jan 2016 19:20

Tgt Ion	Ratio	Lower	Upper
84	100		
49	136.1	112.3	168.5
51	40.7	32.5	48.7
86	62.3	50.3	75.5





#21

Allvl Chloride

Concen: 14.52 ppbv

RT: 5.21 min Scan# 348

Delta R.T. 0.00 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 1129640

Ion Ratio Lower Upper

41 100

76 35.6 27.5 41.3

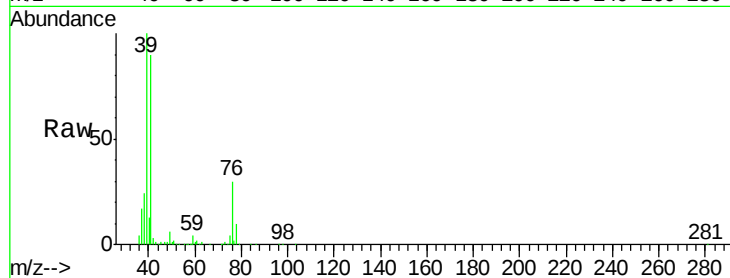
39 114.5 83.2 124.8

Manual Integrations

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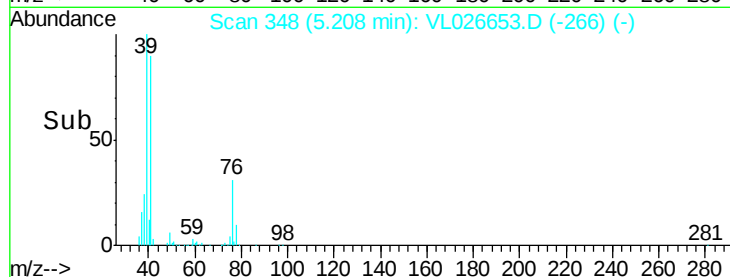


Abundance Ion 41.10 (40.80 to 41.80): VL0

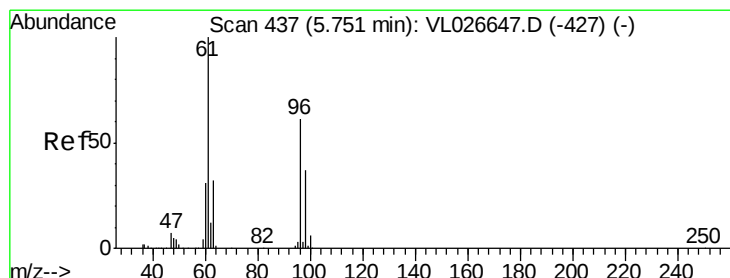
Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0

5.21



Time-->



#22

trans-1,2-Dichloroethene

Concen: 14.57 ppbv

RT: 5.75 min Scan# 437

Delta R.T. 0.00 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

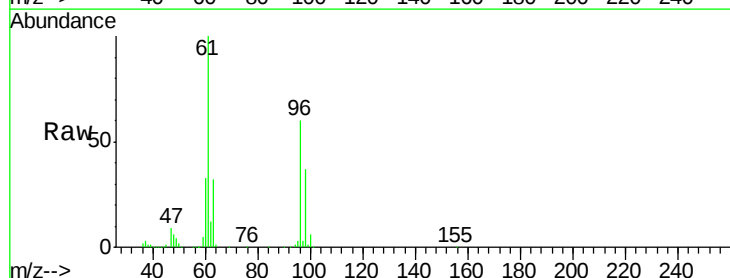
Tgt Ion: 96 Resp: 900301

Ion Ratio Lower Upper

96 100

61 167.2 131.0 196.6

98 62.4 48.1 72.1

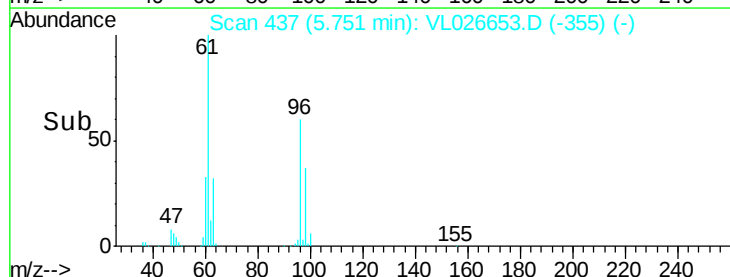


Abundance Ion 96.00 (95.70 to 96.70): VL0

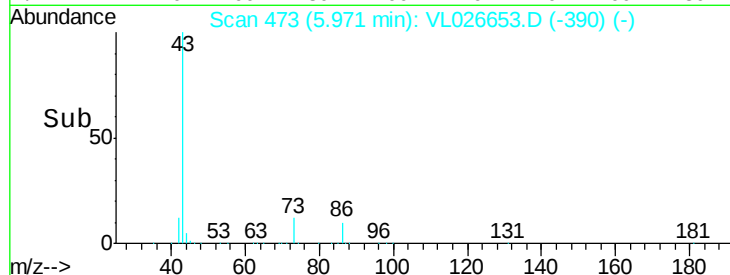
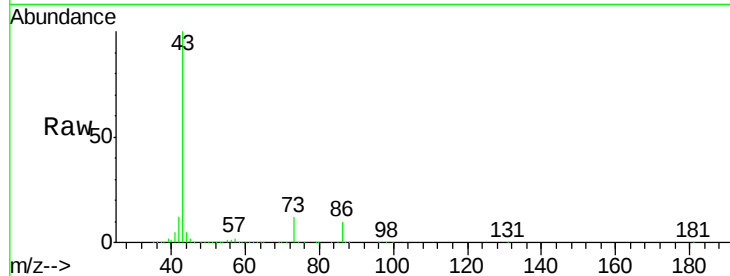
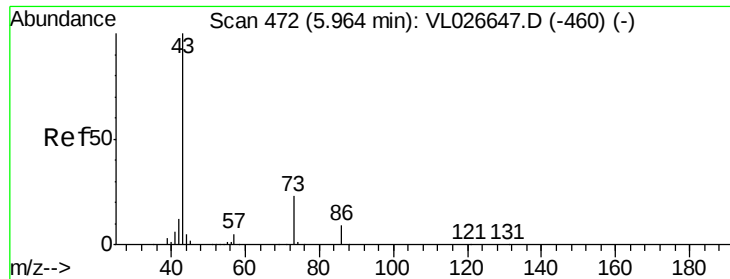
Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

5.75



Time-->



#23

Vinyl Acetate

Concen: 14.42 ppbv

RT: 5.97 min Scan# 473

Delta R.T. 0.01 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Tot Ion:	43	Resp:	2935237
Ion	Ratio	Lower	Upper
43	100		
86	9.9	7.4	11.0
42	12.0	9.2	13.8
44	4.6	3.8	5.8

Instrument :

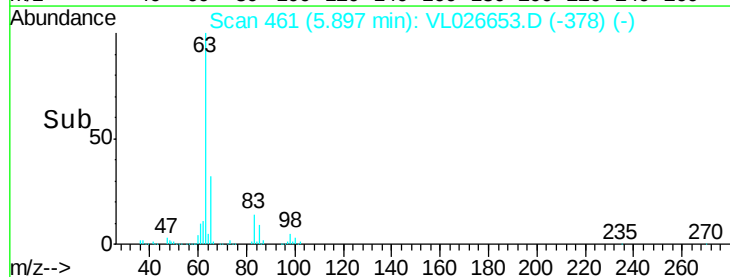
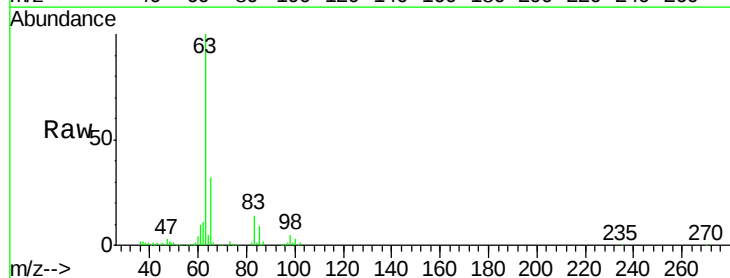
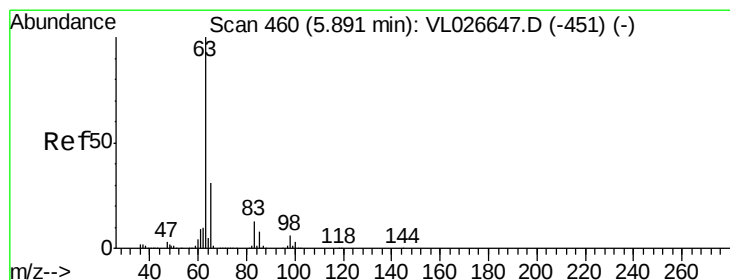
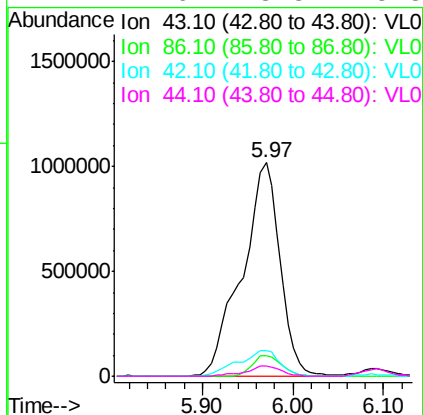
MSVOA_L

ClientSampleId :

VSTDIC015

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#24

1,1-Dichloroethane

Concen: 14.40 ppbv

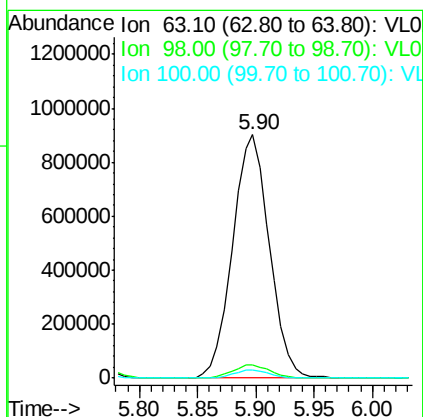
RT: 5.90 min Scan# 461

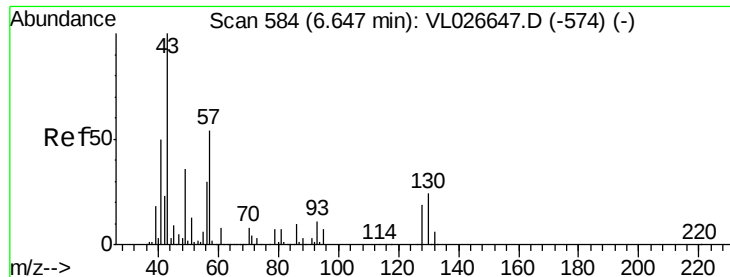
Delta R.T. 0.01 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Tgt Ion:	63	Resp:	1967278
Ion	Ratio	Lower	Upper
63	100		
98	5.5	2.9	8.7
100	3.2	1.6	4.8





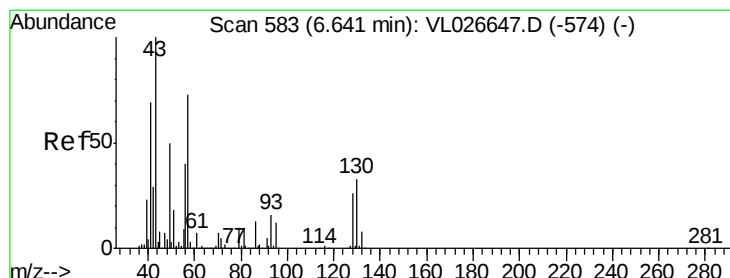
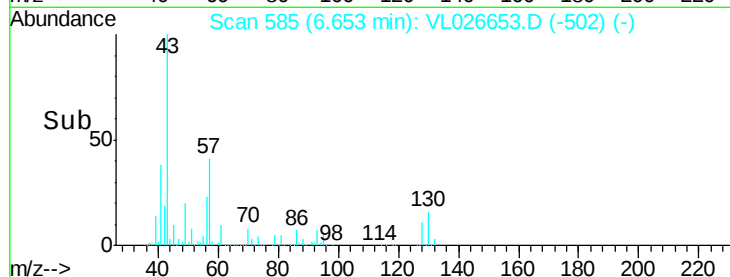
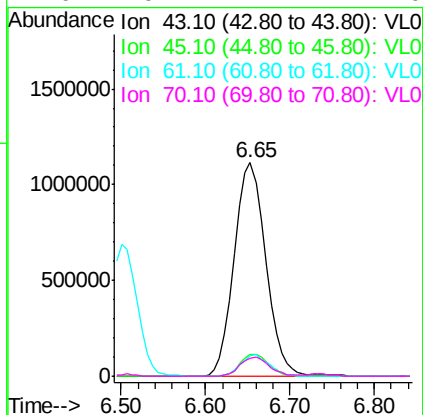
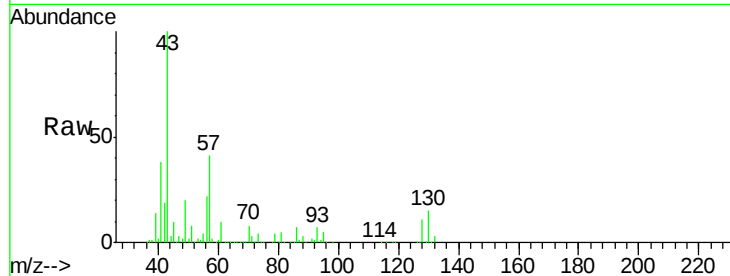
#25
Ethyl Acetate
Concen: 14.35 ppbv
RT: 6.65 min Scan# 585
Delta R.T. 0.01 min
Lab File: VL026653.D
Acq: 8 Jan 2016 19:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	9.5	7.5	11.3	
61	9.1	7.3	10.9	
70	9.4	7.4	11.0	

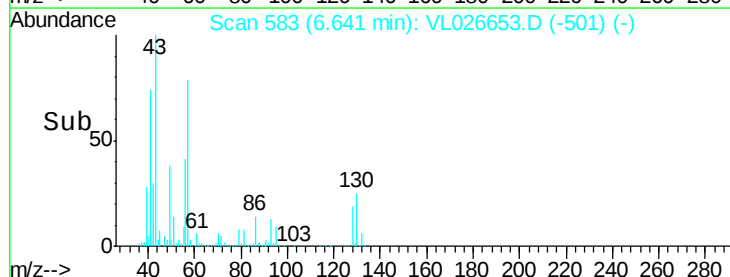
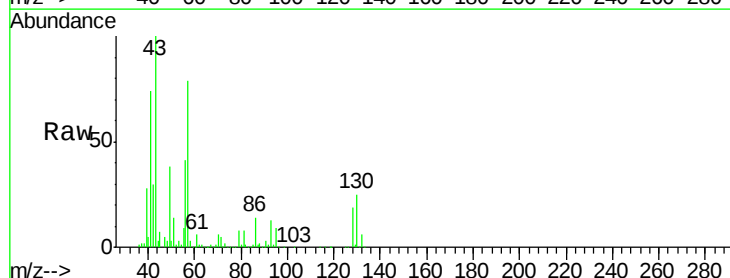
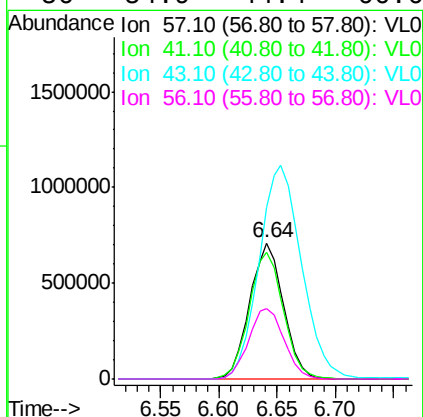
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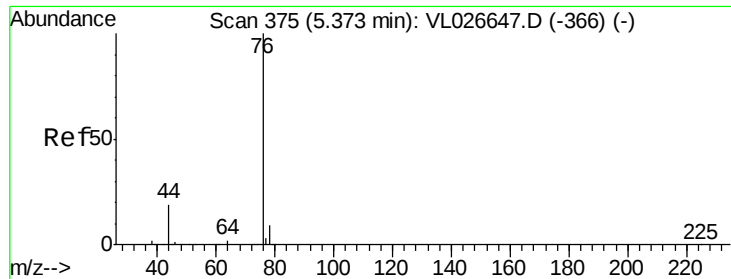
apatel
1/11/2016 5:13:44 PM



#26
Hexane
Concen: 14.58 ppbv
RT: 6.64 min Scan# 583
Delta R.T. 0.00 min
Lab File: VL026653.D
Acq: 8 Jan 2016 19:20

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	95.6	74.8	112.2	
43	197.4	161.5	242.3	
56	54.9	44.4	66.6	





#27

Carbon Disulfide

Concen: 15.03 ppbv

RT: 5.37 min Scan# 375

Delta R.T. 0.00 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Instrument :

MSVOA_L

ClientSampleId :

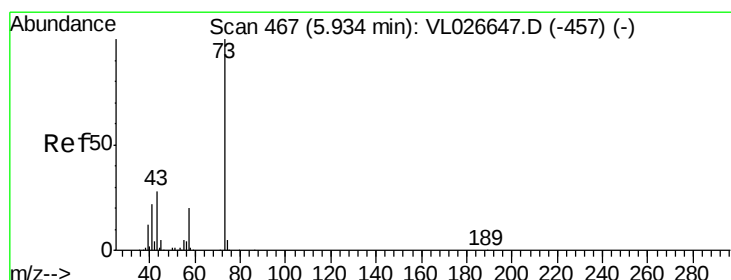
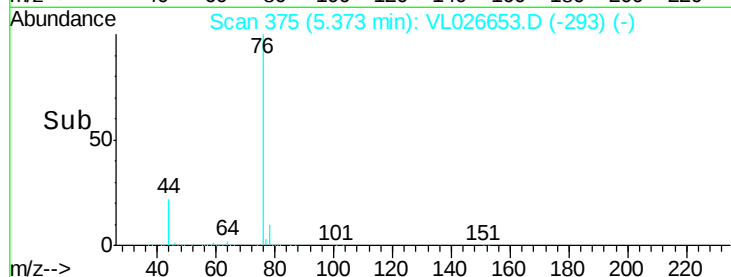
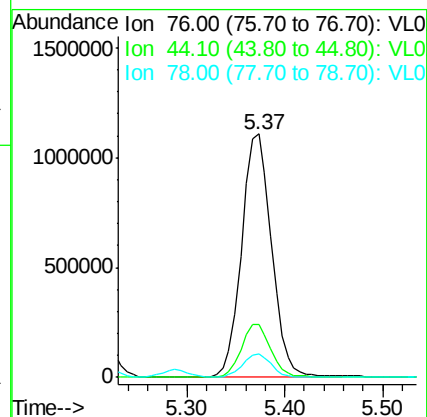
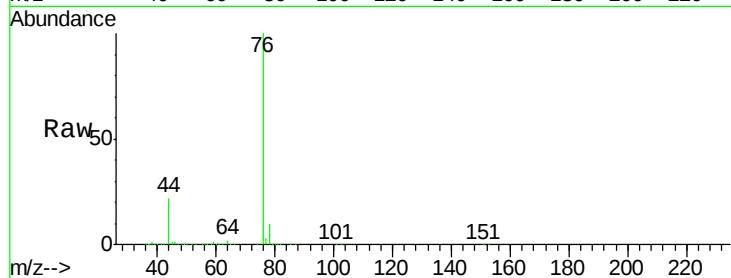
VSTDIC015

Tot Ion: 76 Resp: 2356452

Ion	Ratio	Lower	Upper
76	100		
44	21.7	16.1	24.1
78	9.5	7.4	11.0

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 14.87 ppbv

RT: 5.93 min Scan# 467

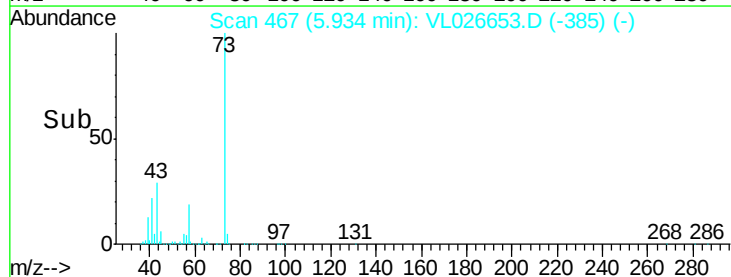
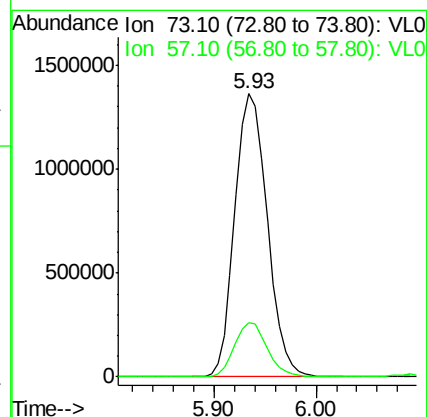
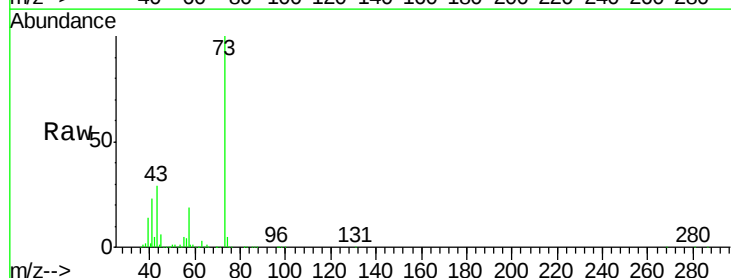
Delta R.T. 0.00 min

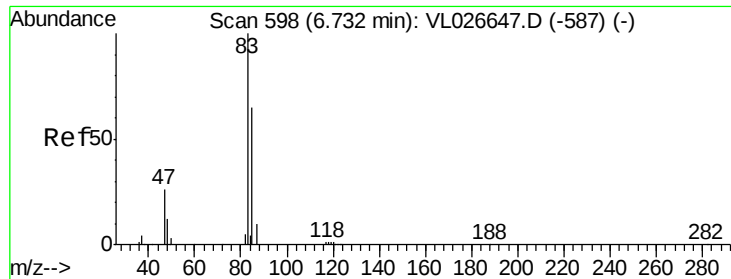
Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Tgt Ion: 73 Resp: 3024198

Ion	Ratio	Lower	Upper
73	100		
57	19.1	16.2	24.4





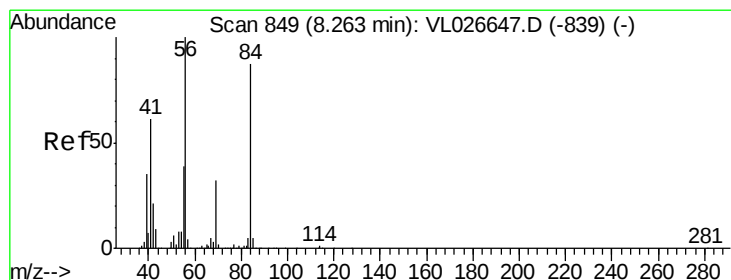
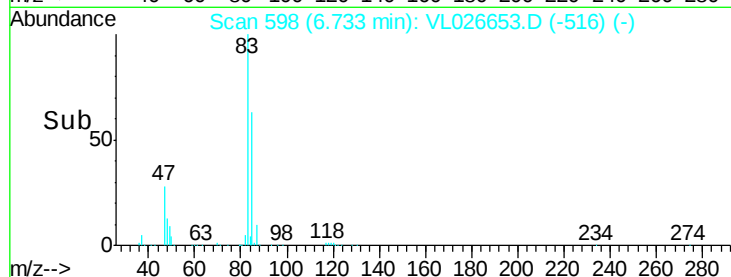
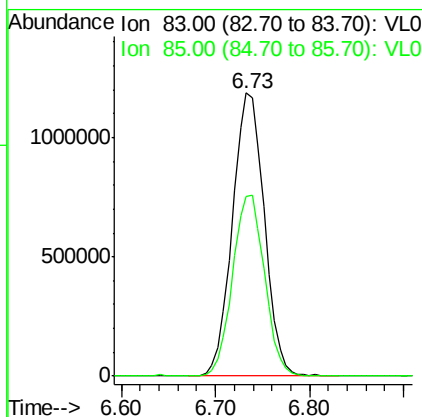
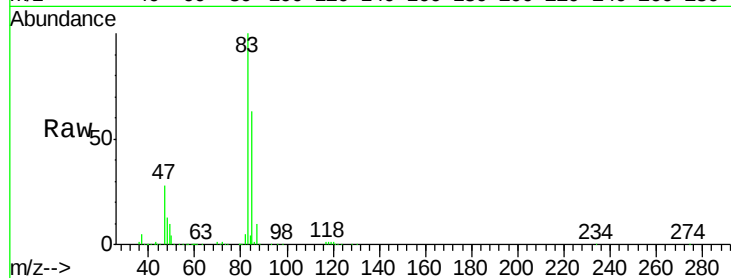
#29
Chloroform
Concen: 15.94 ppbv
RT: 6.73 min Scan# 598
Delta R.T. 0.00 min
Lab File: VL026653.D
Acq: 8 Jan 2016 19:20

Instrument :
MSVOA_L
ClientSampled :
VSTDIC015

Tot Ion: 83 Resp: 2801216
Ion Ratio Lower Upper
83 100
85 63.4 51.6 77.4

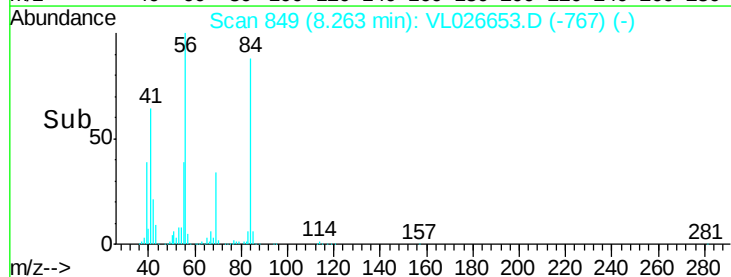
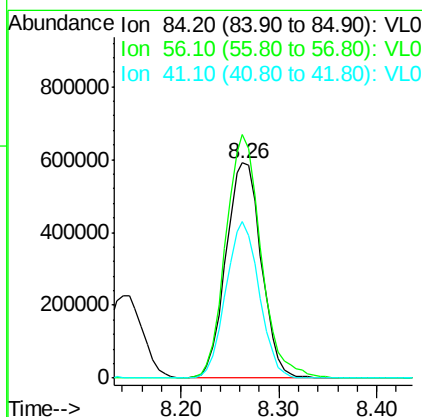
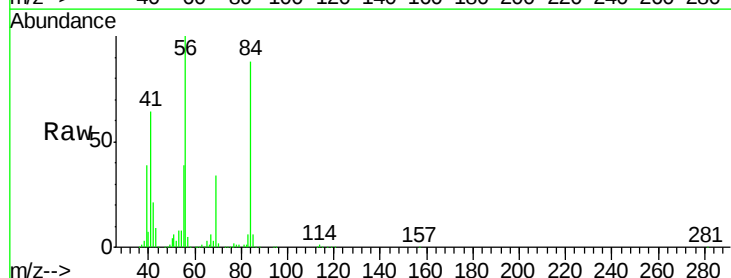
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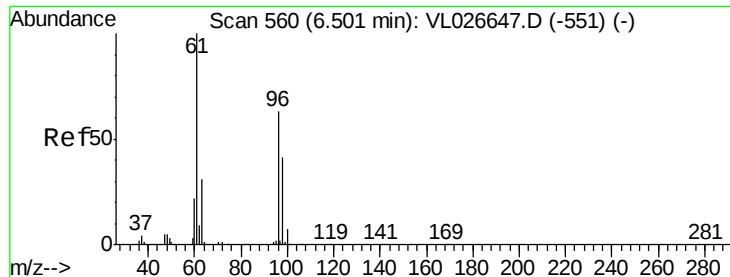
apatel
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#30
Cyclohexane
Concen: 14.67 ppbv
RT: 8.26 min Scan# 849
Delta R.T. 0.00 min
Lab File: VL026653.D
Acq: 8 Jan 2016 19:20

Tgt Ion: 84 Resp: 1478167
Ion Ratio Lower Upper
84 100
56 113.1 95.9 143.9
41 69.2 54.8 82.2





#31

cis-1,2-Dichloroethene

Concen: 14.75 ppbv

RT: 6.50 min Scan# 560

Delta R.T. 0.00 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 61 Resp: 1547088

Ion Ratio Lower Upper

61 100

96 63.9 50.2 75.4

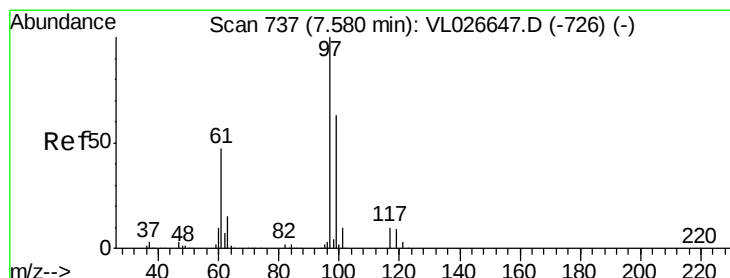
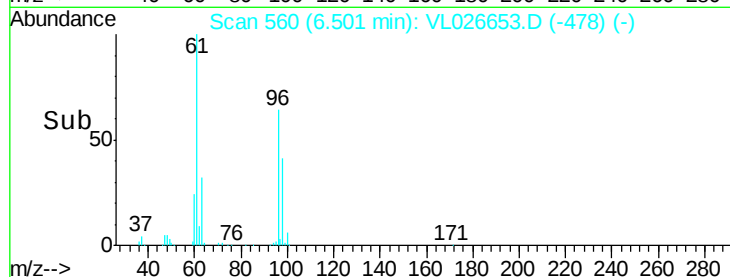
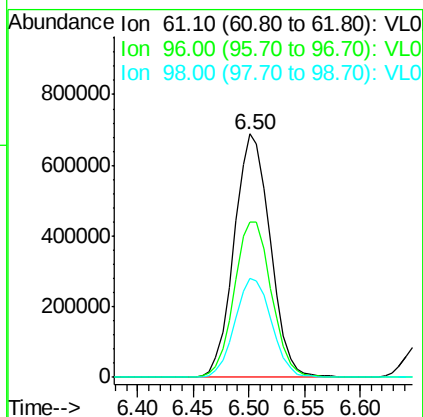
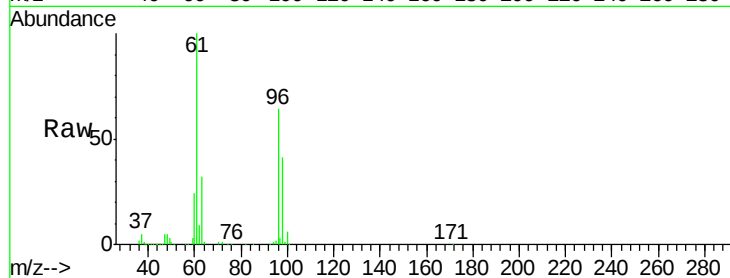
98 40.9 32.4 48.6

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#32

1,1,1-Trichloroethane

Concen: 16.26 ppbv

RT: 7.58 min Scan# 737

Delta R.T. 0.00 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

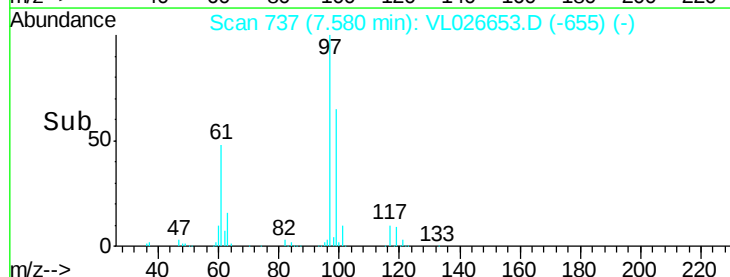
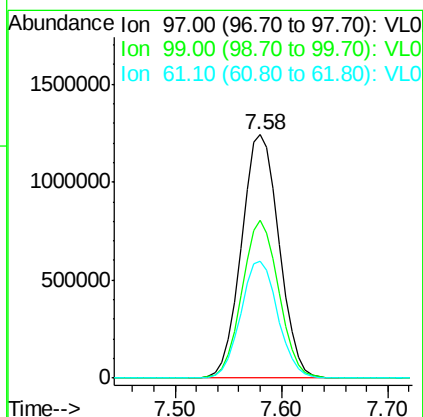
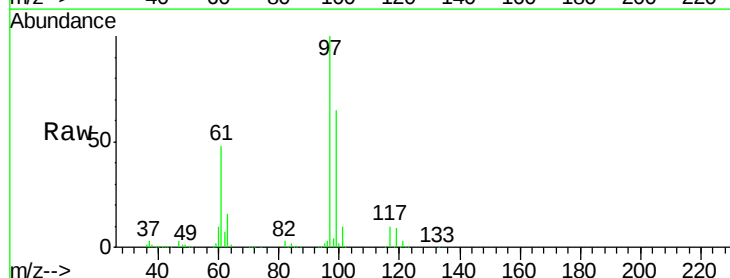
Tgt Ion: 97 Resp: 3085439

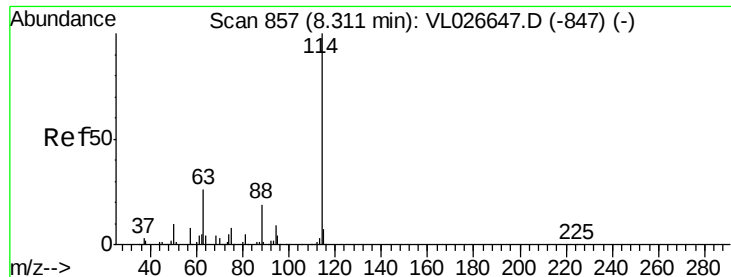
Ion Ratio Lower Upper

97 100

99 63.4 50.8 76.2

61 47.5 38.6 58.0





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 8.31 min Scan# 857

Delta R.T. 0.00 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:114 Resp: 2376958

Ion Ratio Lower Upper

114 100

63 27.3 21.7 32.5

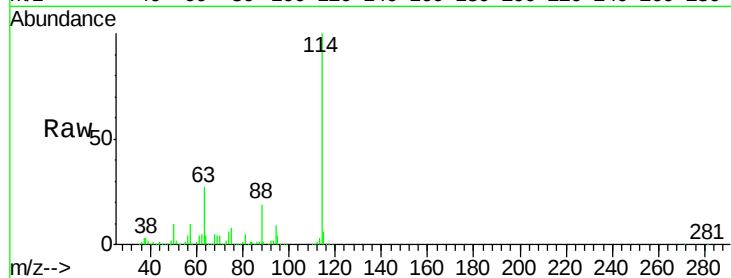
88 19.0 15.2 22.8

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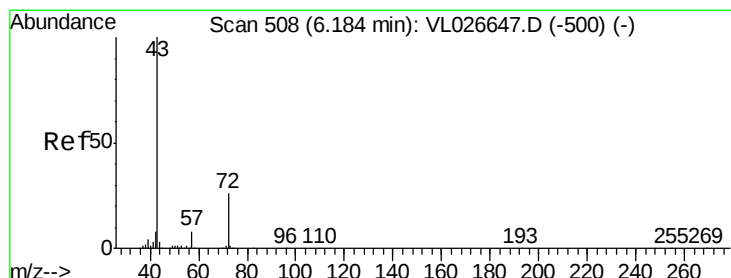
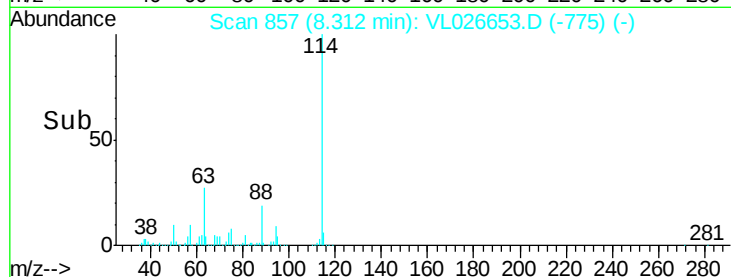
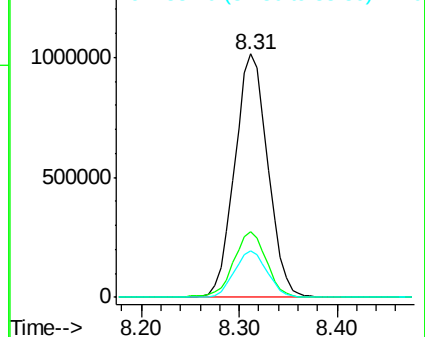
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Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 13.45 ppbv

RT: 6.18 min Scan# 508

Delta R.T. 0.00 min

Lab File: VL026653.D

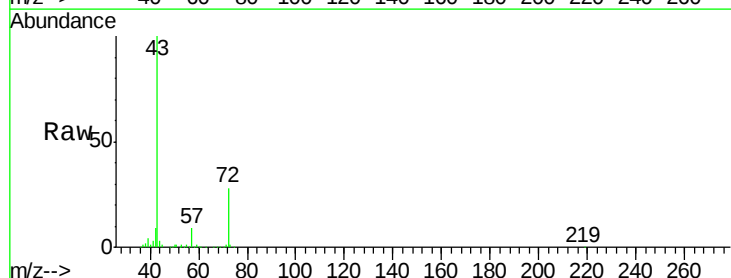
Acq: 8 Jan 2016 19:20

Tgt Ion: 43 Resp: 1675597

Ion Ratio Lower Upper

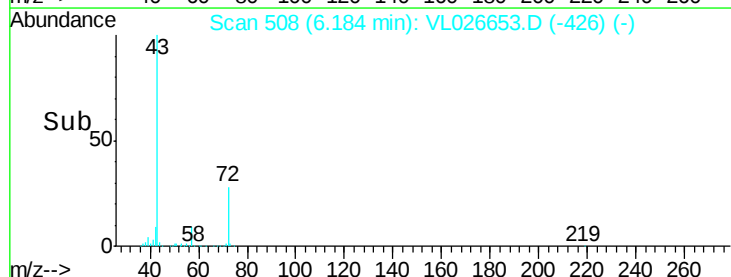
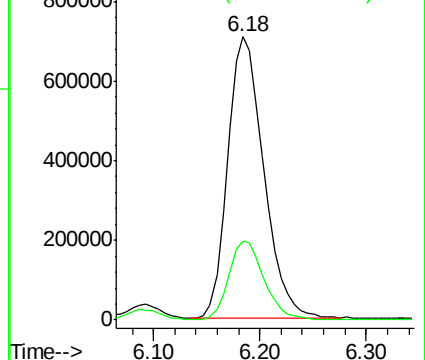
43 100

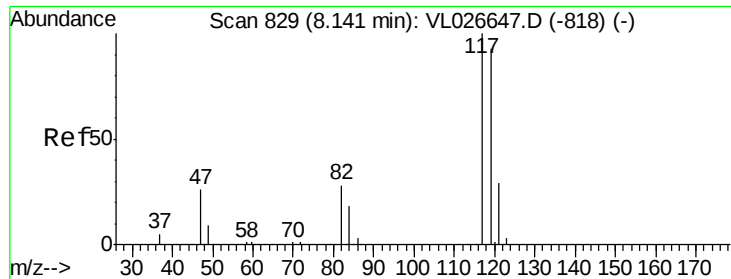
72 27.7 20.9 31.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 15.85 ppbv

RT: 8.15 min Scan# 830

Delta R.T. 0.01 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 3104046

Ion Ratio Lower Upper

117 100

119 93.6 74.7 112.1

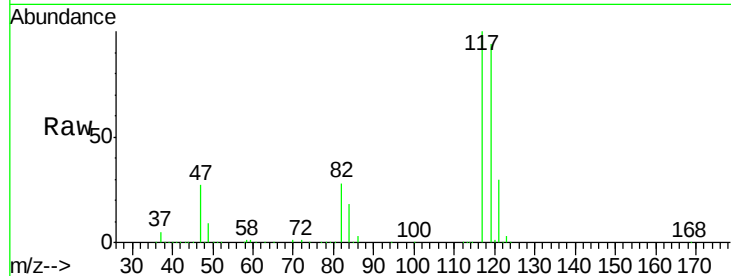
121 30.1 23.1 34.7

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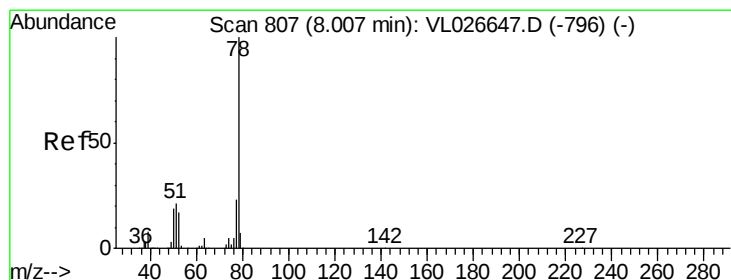
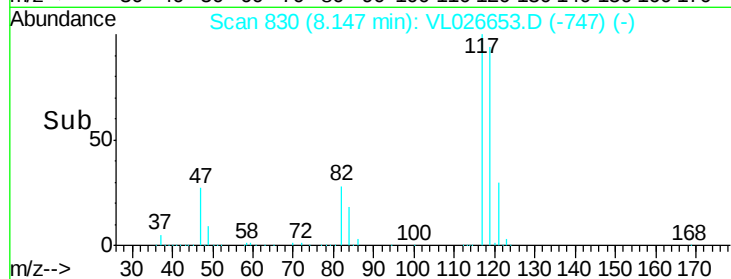
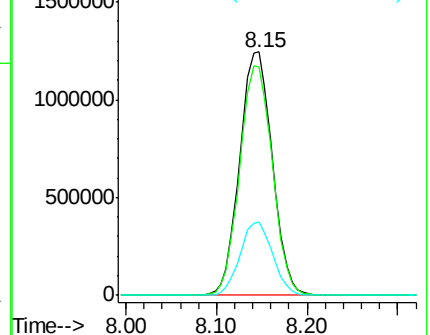
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 13.89 ppbv

RT: 8.01 min Scan# 807

Delta R.T. 0.00 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

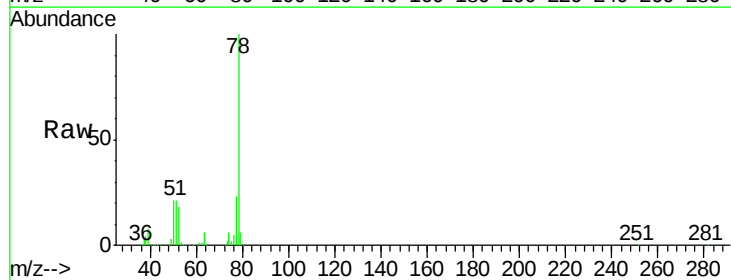
Tgt Ion: 78 Resp: 3333585

Ion Ratio Lower Upper

78 100

77 23.4 18.5 27.7

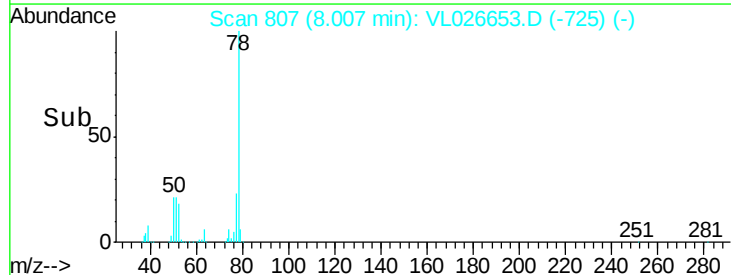
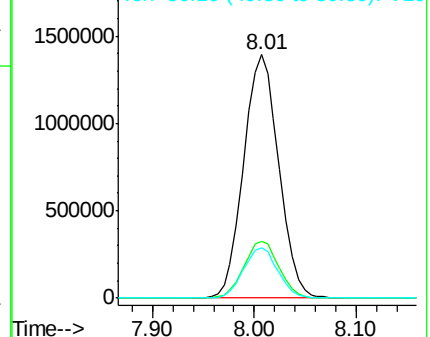
50 20.8 15.4 23.2

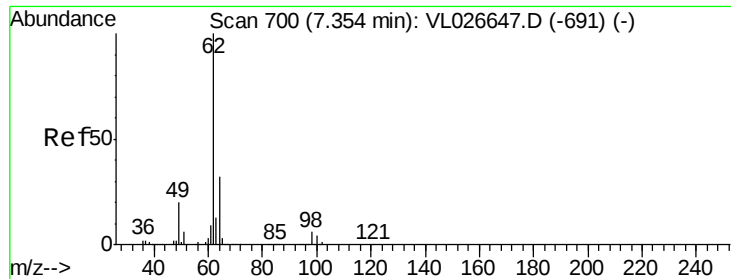


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





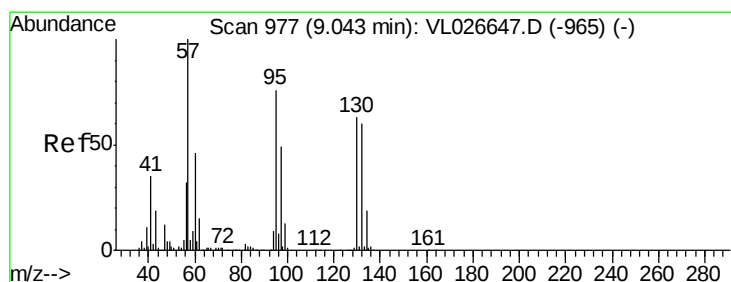
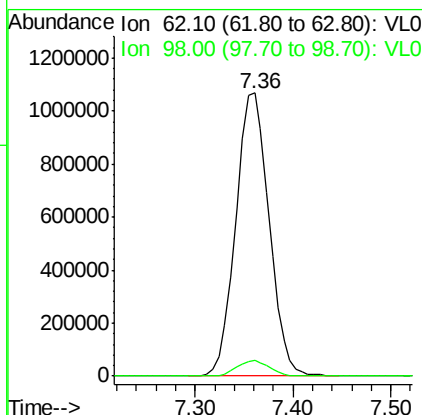
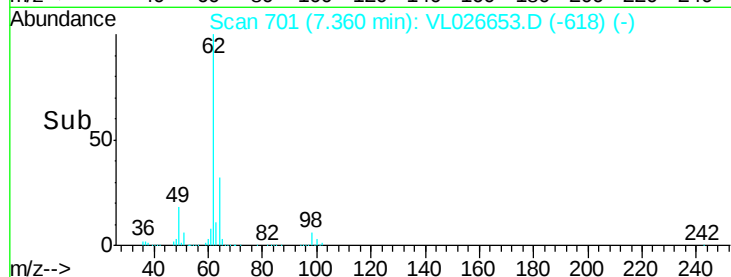
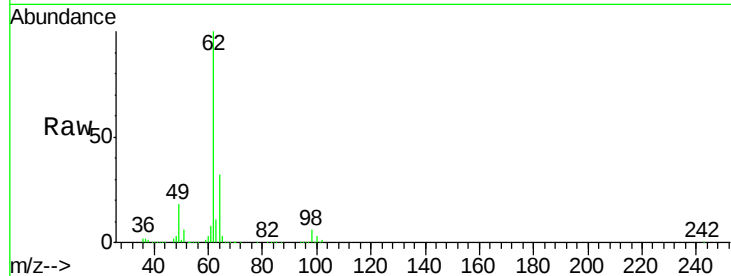
#37
 1,2-Dichloroethane
 Concen: 15.50 ppbv
 RT: 7.36 min Scan# 701
 Delta R.T. 0.01 min
 Lab File: VL026653.D
 Acq: 8 Jan 2016 19:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 62 Resp: 2535985
 Ion Ratio Lower Upper
 62 100
 98 5.4 4.8 7.2

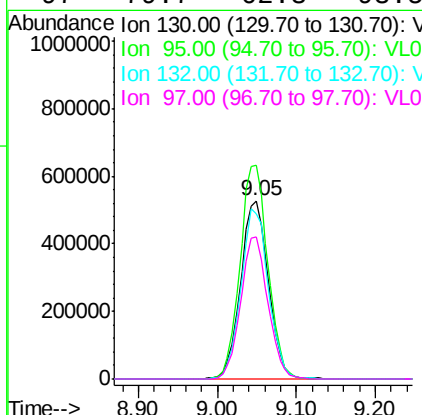
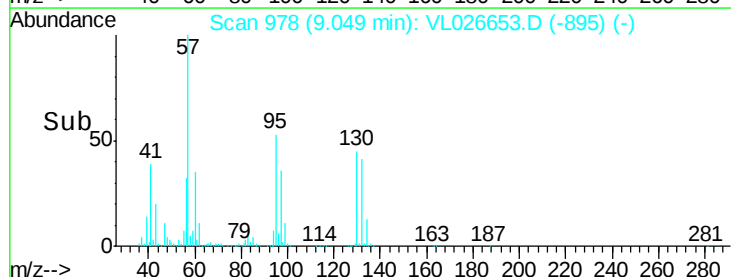
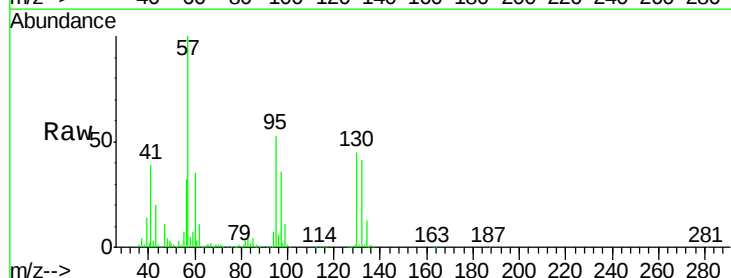
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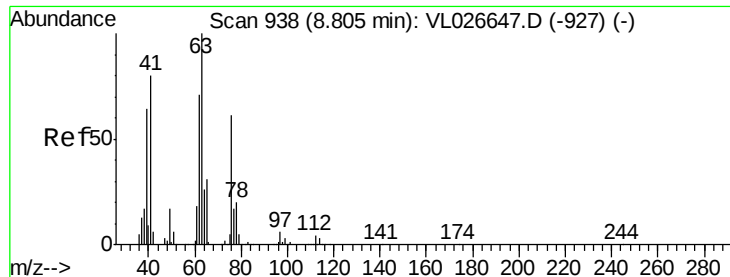
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#38
 Trichloroethene
 Concen: 13.88 ppbv
 RT: 9.05 min Scan# 978
 Delta R.T. 0.01 min
 Lab File: VL026653.D
 Acq: 8 Jan 2016 19:20

Tgt Ion: 130 Resp: 1294598
 Ion Ratio Lower Upper
 130 100
 95 119.7 96.6 145.0
 132 92.8 76.2 114.4
 97 79.7 62.3 93.5





#39

1,2-Dichloropropane

Concen: 13.61 ppbv

RT: 8.81 min Scan# 939

Delta R.T. 0.01 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 63 Resp: 1129560

Ion Ratio Lower Upper

63 100

41 92.2 64.1 96.1

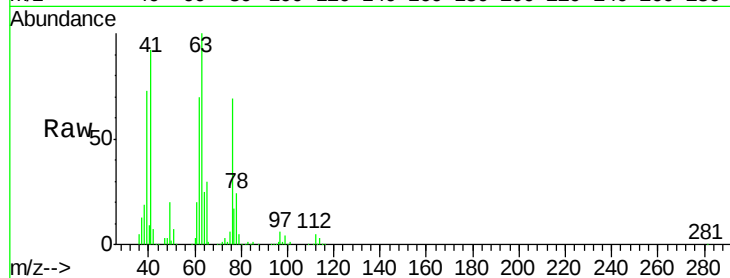
62 70.1 56.6 84.8

Manual Integrations

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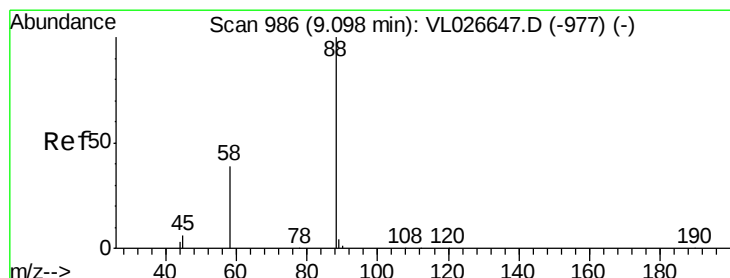
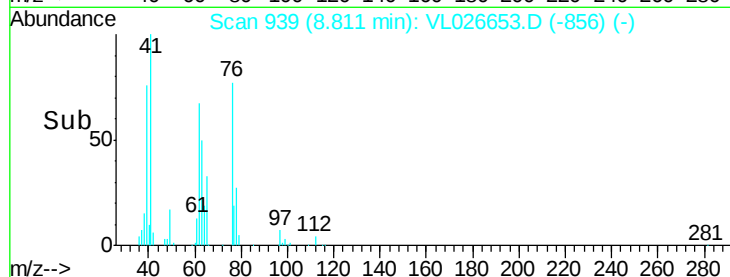
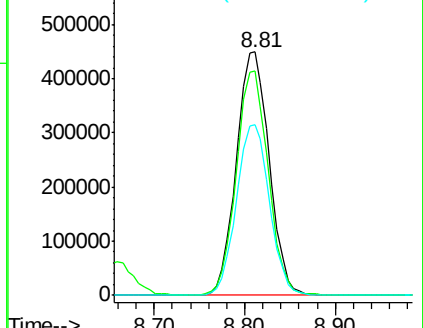
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Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 12.38 ppbv

RT: 9.09 min Scan# 985

Delta R.T. -0.01 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Tgt Ion: 88 Resp: 325829

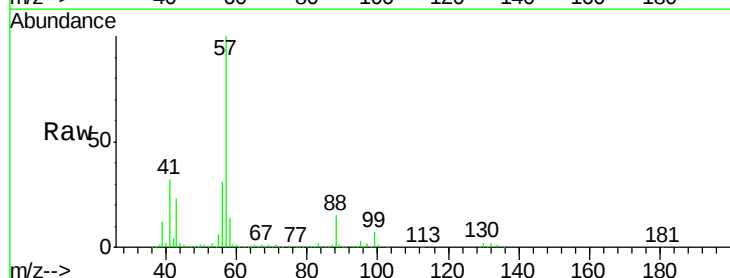
Ion Ratio Lower Upper

88 100

58 141.9 109.4 164.2

43 325.1 238.2 357.2

57 1560.9 1148.3 1722.5

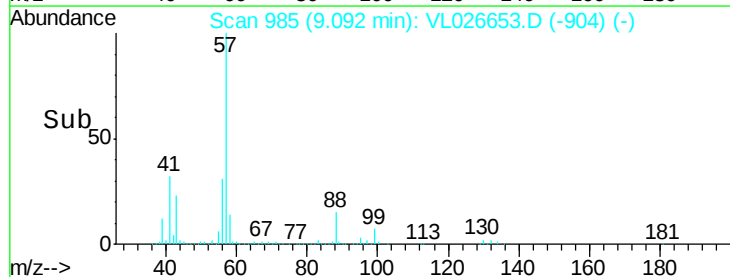
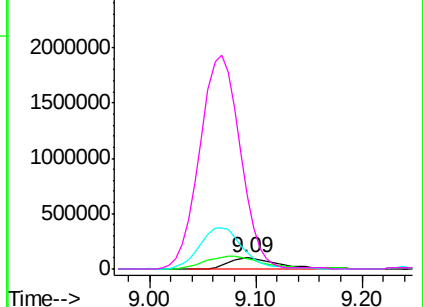


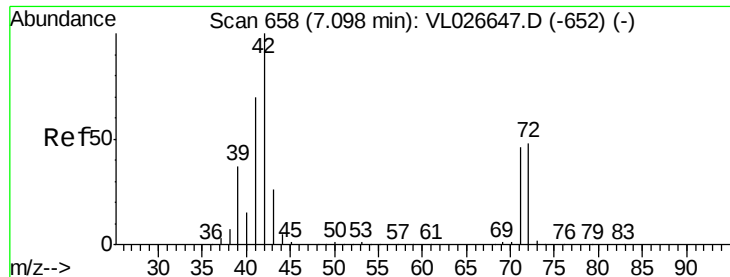
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 13.27 ppbv

RT: 7.10 min Scan# 658

Delta R.T. 0.00 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Instrument :

MSVOA_L

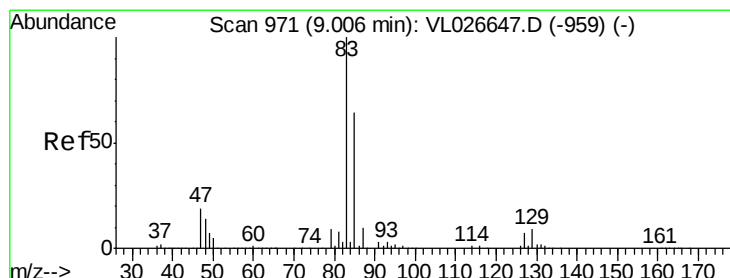
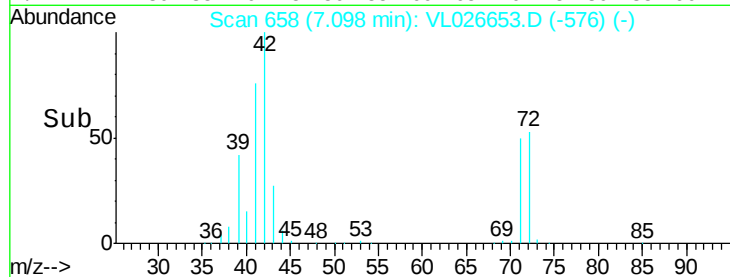
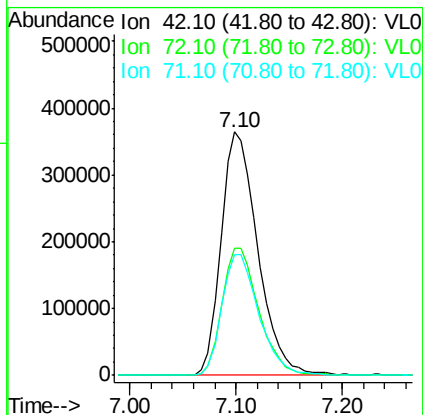
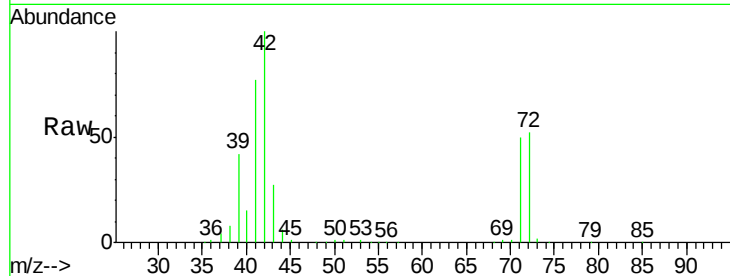
ClientSampleId :

VSTDIC015

Tot Ion:	42	Resp:	876732
Ion	Ratio	Lower	Upper
42	100		
72	52.6	40.6	60.8
71	50.2	38.4	57.6

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#42

Bromodichloromethane

Concen: 15.14 ppbv

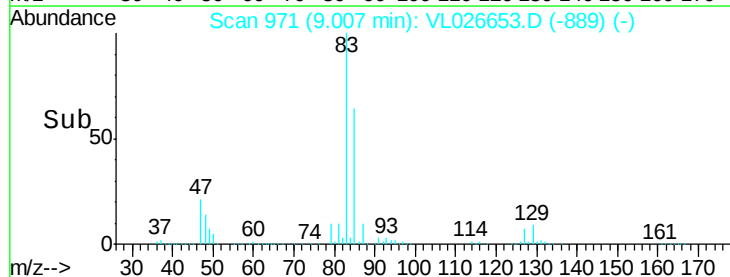
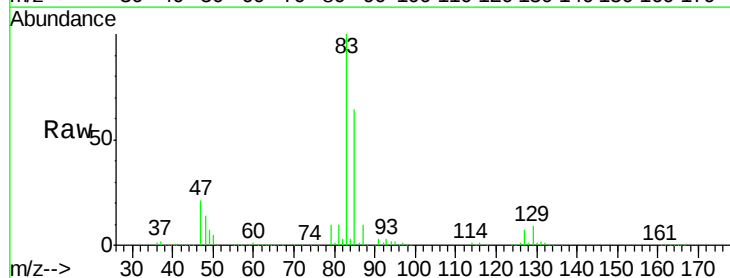
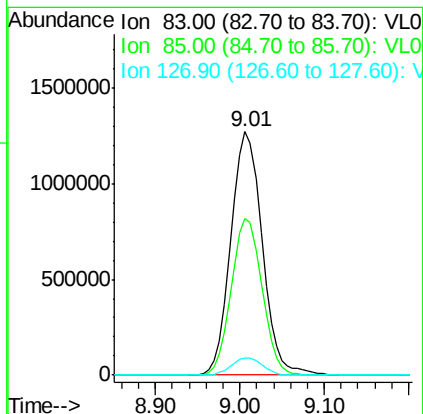
RT: 9.01 min Scan# 971

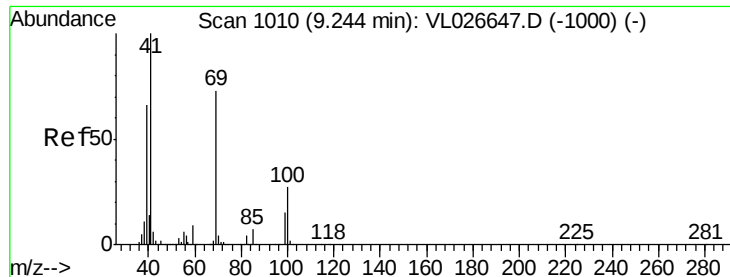
Delta R.T. 0.00 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Tgt Ion:	83	Resp:	3225290
Ion	Ratio	Lower	Upper
83	100		
85	64.2	50.9	76.3
127	7.2	5.5	8.3





#43

Methyl Methacrylate

Concen: 14.33 ppbv

RT: 9.25 min Scan# 1011

Delta R.T. 0.01 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 69 Resp: 1355857

Ion Ratio Lower Upper

69 100

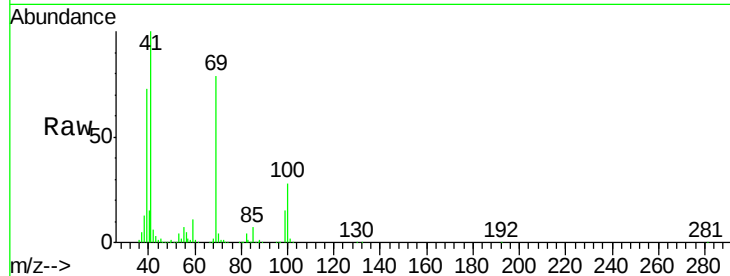
41 128.8 106.1 159.1

100 36.5 29.0 43.4

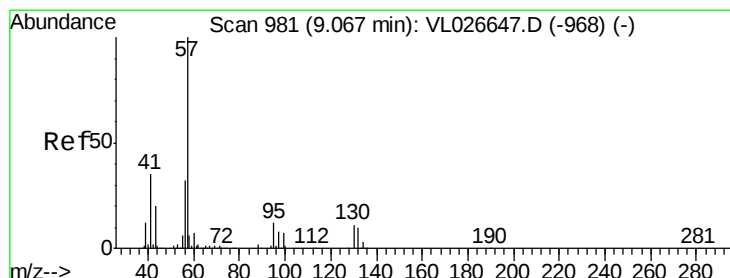
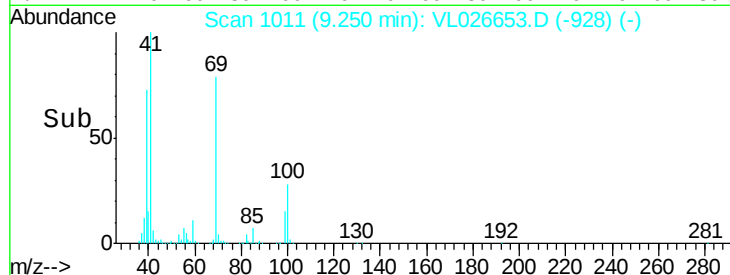
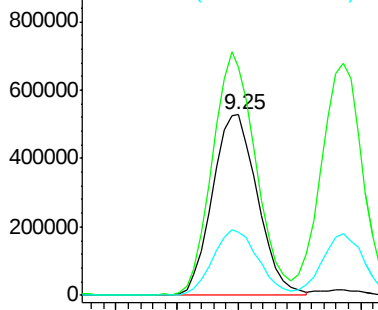
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Abundance Ion 69.10 (68.80 to 69.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 13.51 ppbv

RT: 9.07 min Scan# 981

Delta R.T. 0.00 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

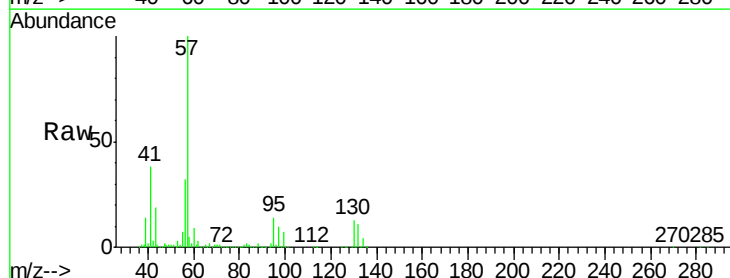
Tgt Ion: 57 Resp: 5084270

Ion Ratio Lower Upper

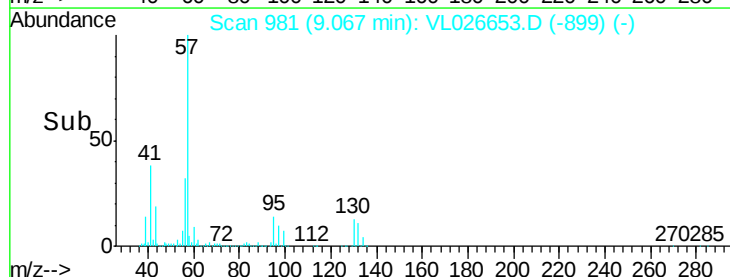
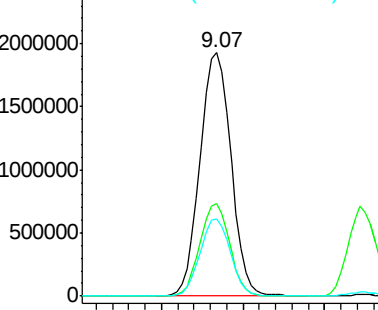
57 100

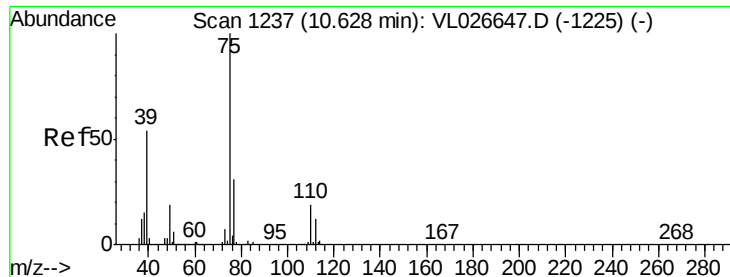
41 36.3 26.9 40.3

56 31.0 25.4 38.0



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: 15.15 ppbv

RT: 10.63 min Scan# 1238

Delta R.T. 0.01 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Instrument :

MSVOA_L

ClientSampled :

VSTDIC015

Tot Ion: 75 Resp: 2467046

Ion Ratio Lower Upper

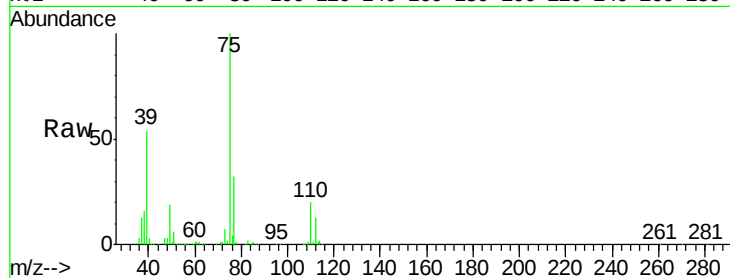
75 100

77 31.9 24.6 37.0

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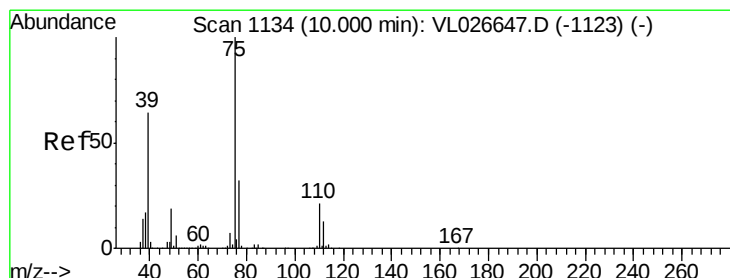
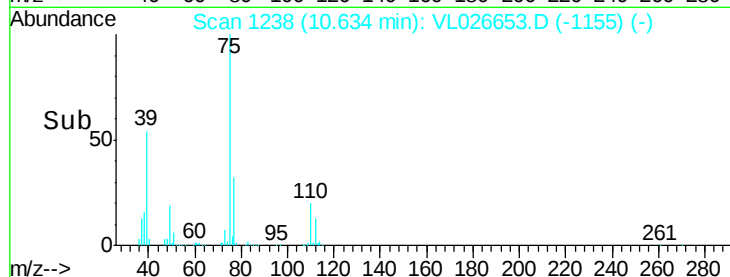
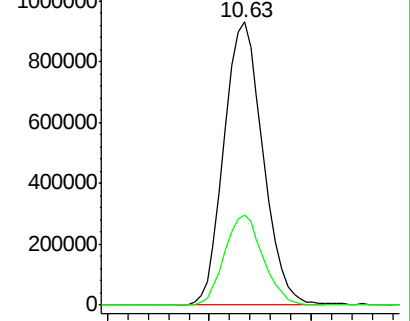
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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 14.78 ppbv

RT: 10.00 min Scan# 1134

Delta R.T. 0.00 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

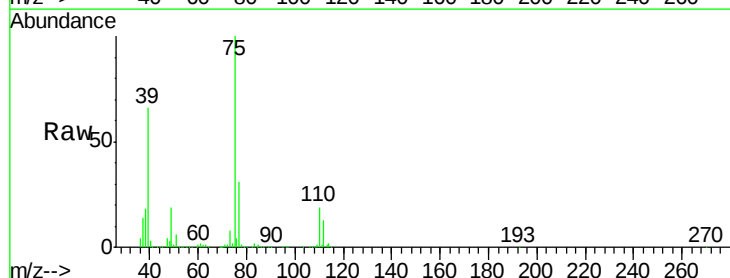
Tgt Ion: 75 Resp: 2606845

Ion Ratio Lower Upper

75 100

39 66.2 51.2 76.8

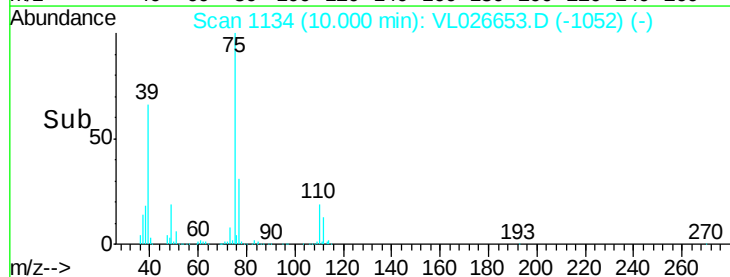
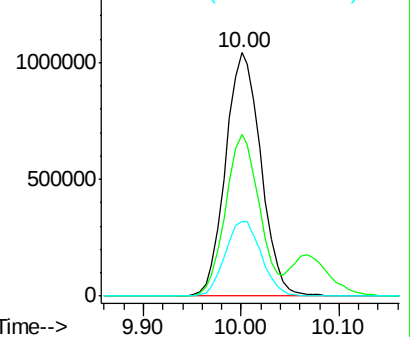
77 30.7 25.9 38.9

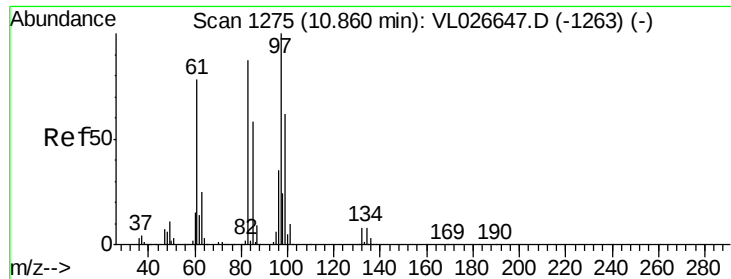


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





#47

1,1,2-Trichloroethane

Concen: 14.57 ppbv

RT: 10.86 min Scan# 1275

Delta R.T. 0.00 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 97 Resp: 1683095

Ion Ratio Lower Upper

97 100

83 87.1 69.5 104.3

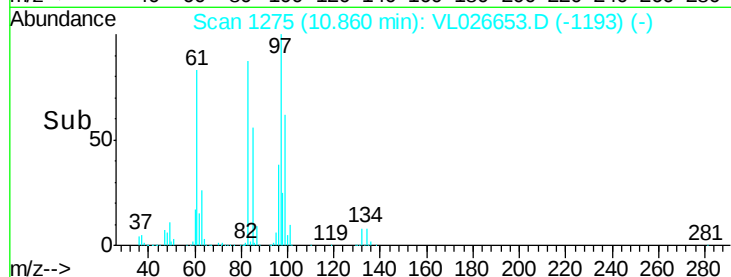
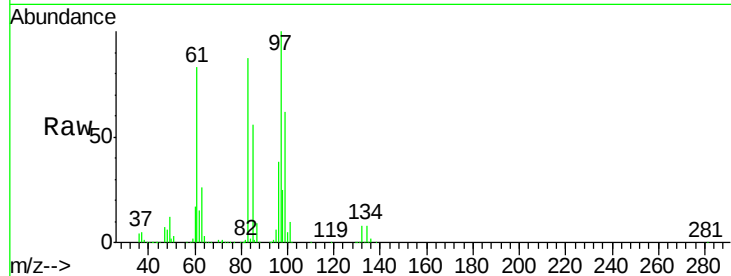
85 56.3 46.4 69.6

99 61.5 49.9 74.9

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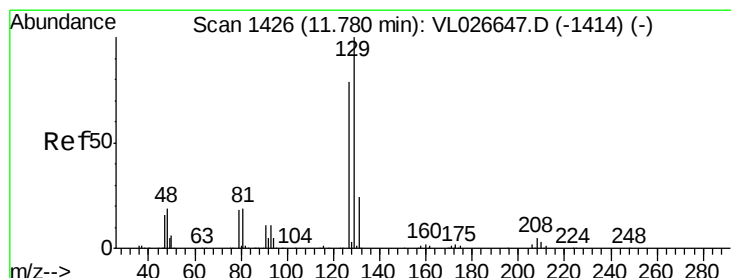
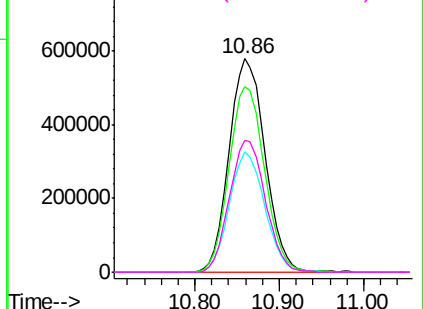


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 15.50 ppbv

RT: 11.79 min Scan# 1427

Delta R.T. 0.01 min

Lab File: VL026653.D

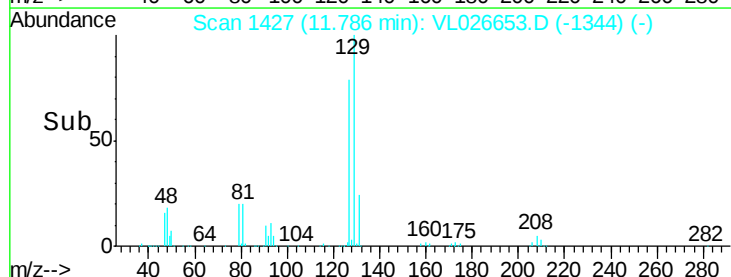
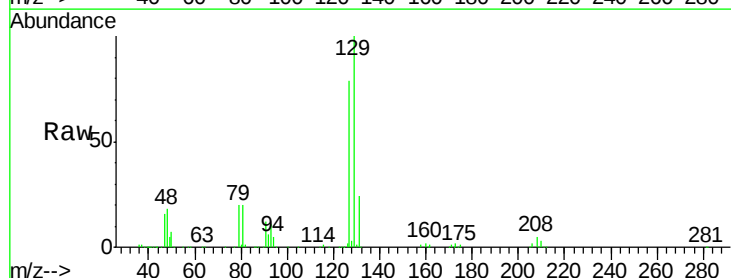
Acq: 8 Jan 2016 19:20

Tgt Ion: 129 Resp: 2838141

Ion Ratio Lower Upper

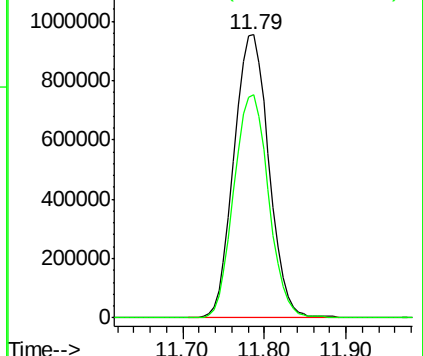
129 100

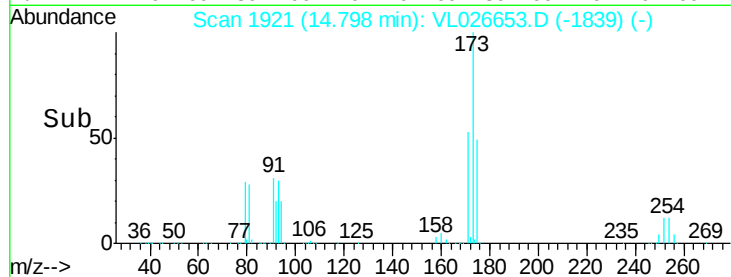
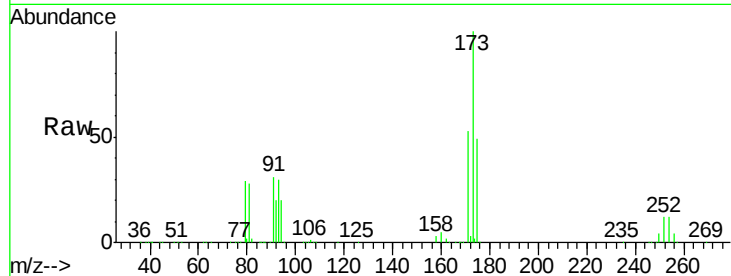
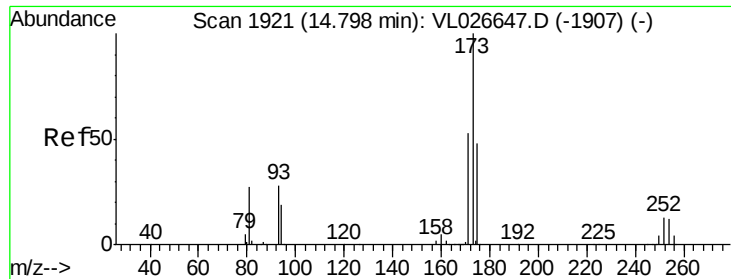
127 79.0 39.5 118.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 15.52 ppbv

RT: 14.80 min Scan# 1921

Delta R.T. 0.00 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Tot Ion: 173 Resp: 2376145

Ion Ratio Lower Upper

173 100

175 49.0 38.6 57.8

171 52.1 41.5 62.3

Instrument :

MSVOA_L

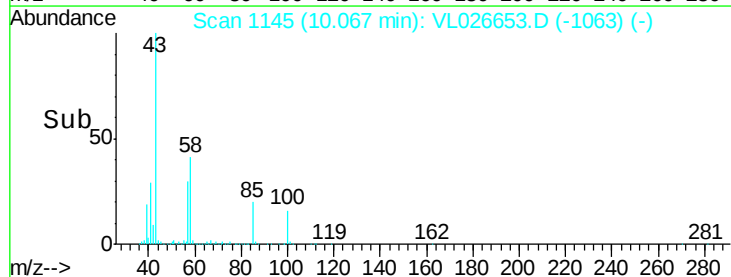
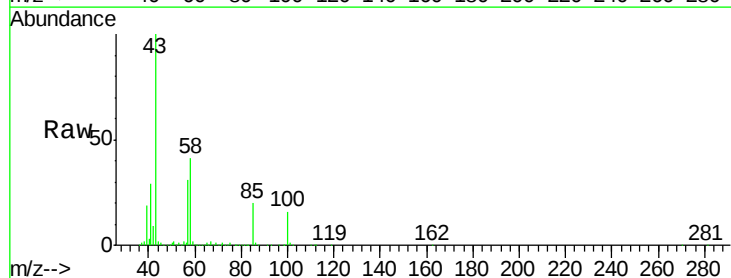
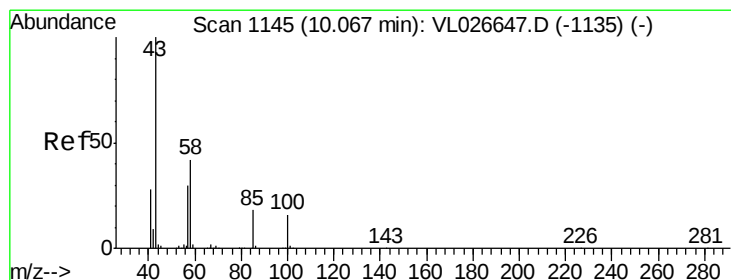
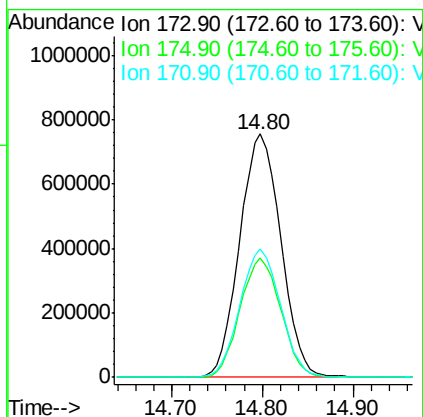
ClientSampleId :

VSTDIC015

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#50

4-Methyl-2-Pentanone

Concen: 13.86 ppbv

RT: 10.07 min Scan# 1145

Delta R.T. 0.00 min

Lab File: VL026653.D

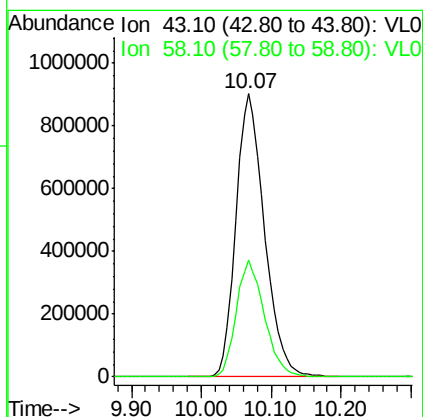
Acq: 8 Jan 2016 19:20

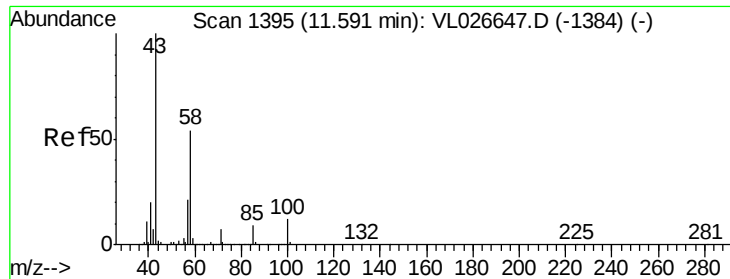
Tgt Ion: 43 Resp: 2552848

Ion Ratio Lower Upper

43 100

58 40.9 32.4 48.6





#51

2-Hexanone

Concen: 14.25 ppbv

RT: 11.59 min Scan# 1395

Delta R.T. 0.00 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Instrument :

MSVOA_L

ClientSampled :

VSTDIC015

Tot Ion: 43 Resp: 2562444

Ion Ratio Lower Upper

43 100

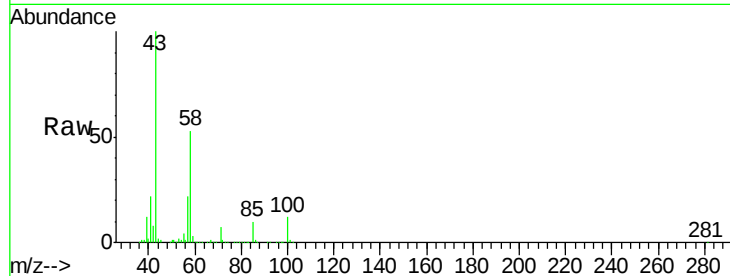
58 55.9 44.9 67.3

98 0.3 0.2 0.2#

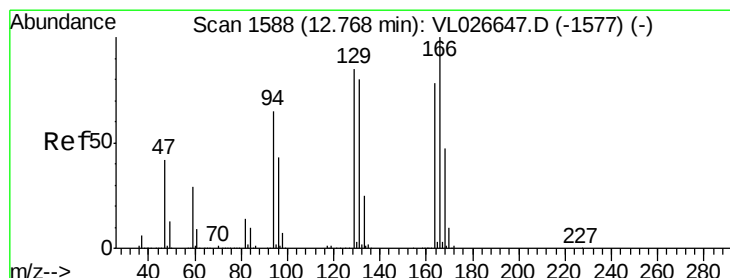
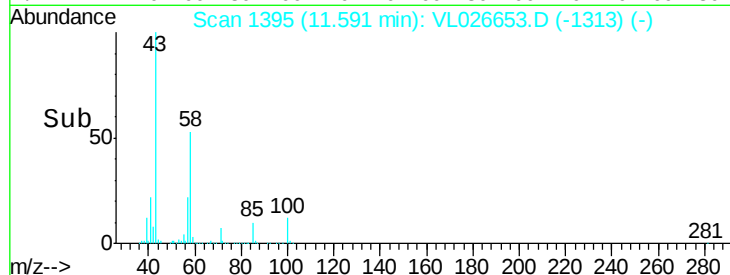
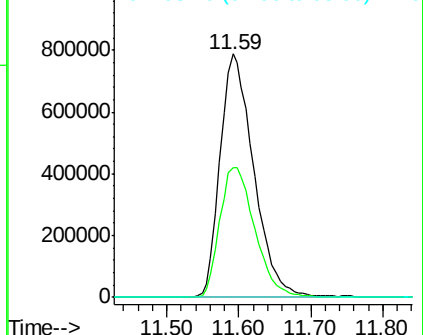
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 14.74 ppbv

RT: 12.77 min Scan# 1589

Delta R.T. 0.01 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Tgt Ion: 164 Resp: 1548268

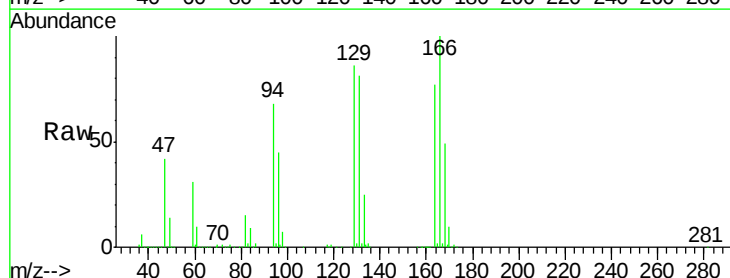
Ion Ratio Lower Upper

164 100

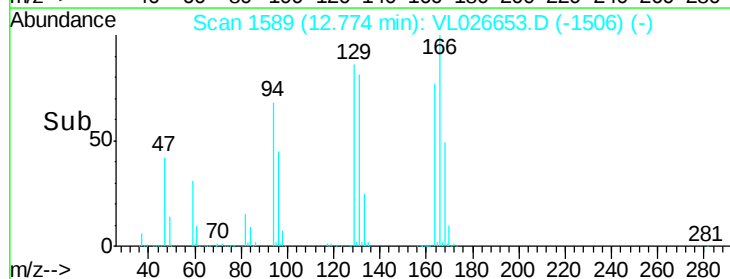
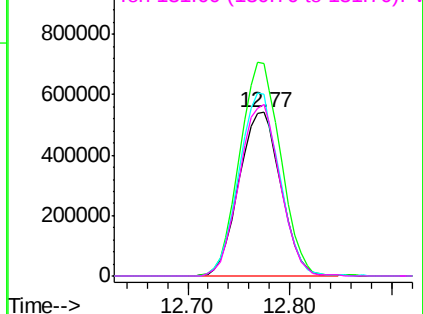
166 130.0 102.5 153.7

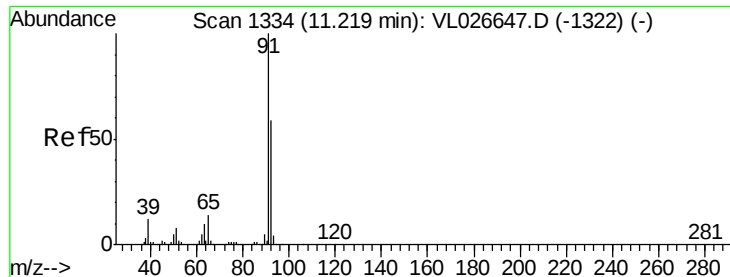
129 111.4 87.0 130.6

131 104.9 82.5 123.7



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: 14.55 ppbv

RT: 11.21 min Scan# 1333

Delta R.T. -0.01 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 4982460

Ion Ratio Lower Upper

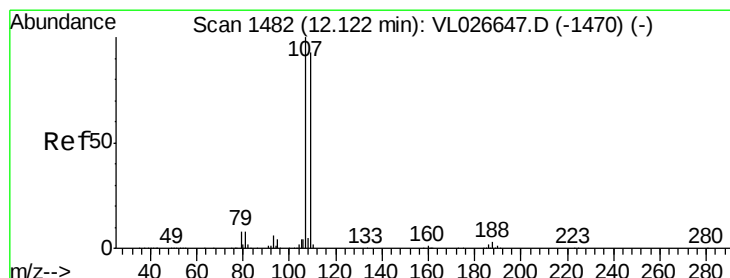
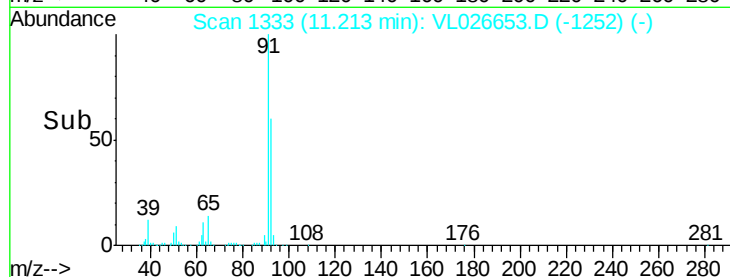
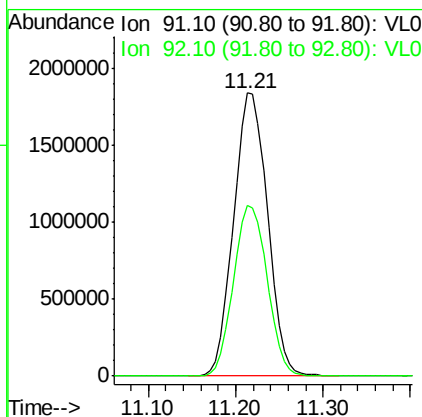
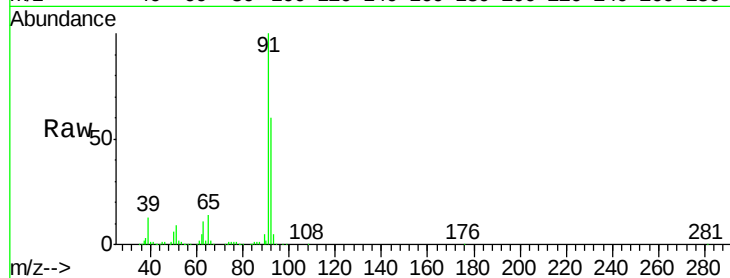
91 100

92 60.2 48.2 72.4

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#54

1,2-Dibromoethane

Concen: 15.08 ppbv

RT: 12.12 min Scan# 1482

Delta R.T. 0.00 min

Lab File: VL026653.D

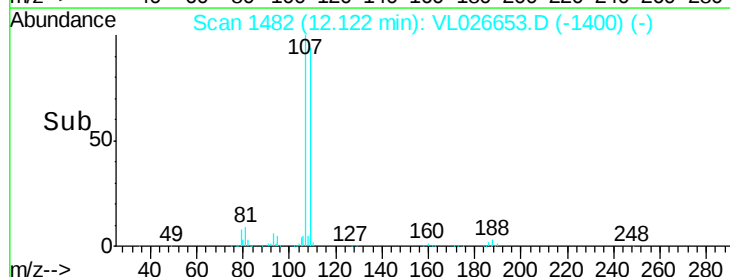
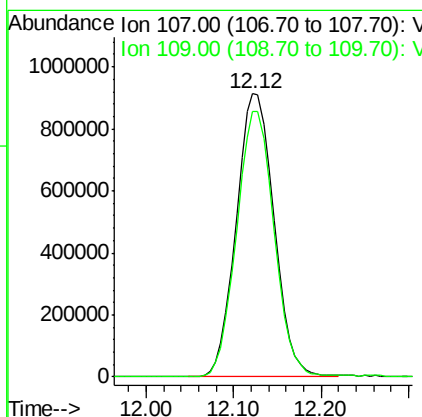
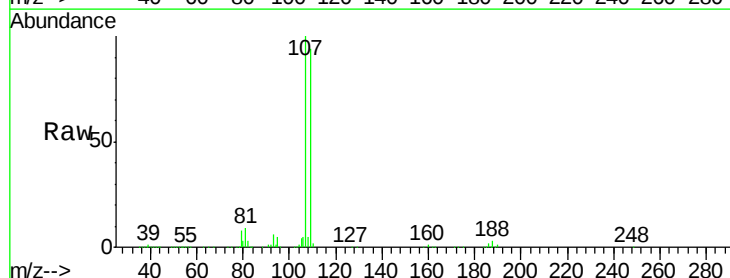
Acq: 8 Jan 2016 19:20

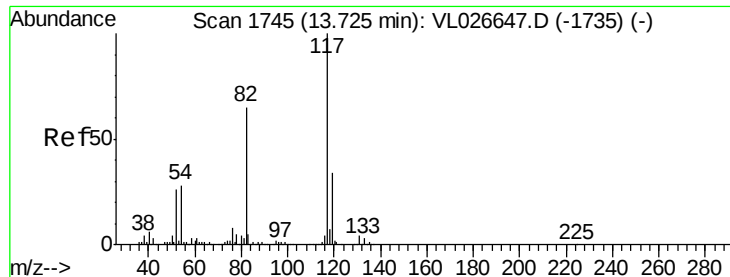
Tgt Ion: 107 Resp: 2746509

Ion Ratio Lower Upper

107 100

109 93.9 74.1 111.1





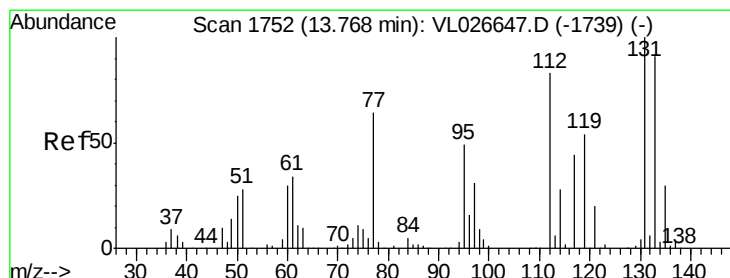
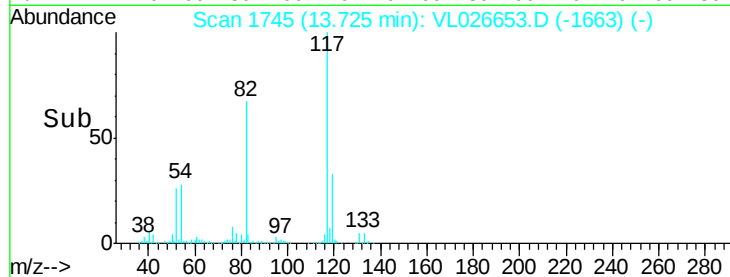
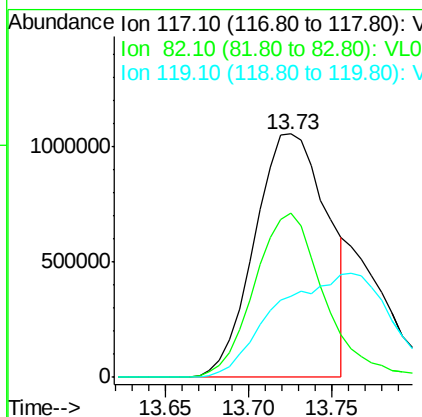
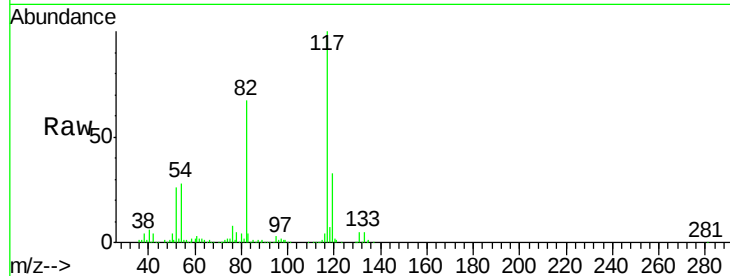
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 13.73 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VL026653.D
Acq: 8 Jan 2016 19:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:117 Resp: 3228946
Ion Ratio Lower Upper
117 100
82 65.2 52.4 78.6
119 66.5 46.1 69.1

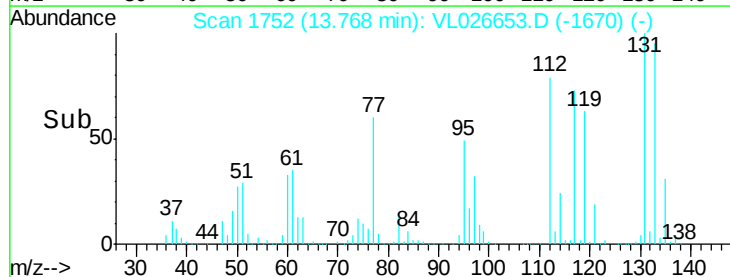
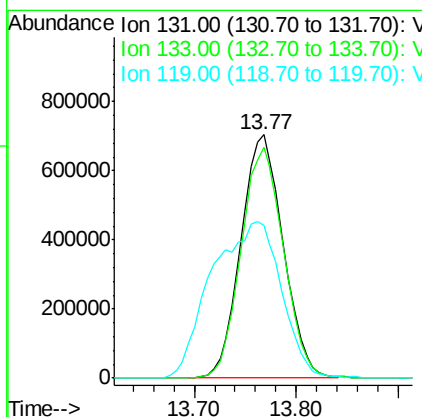
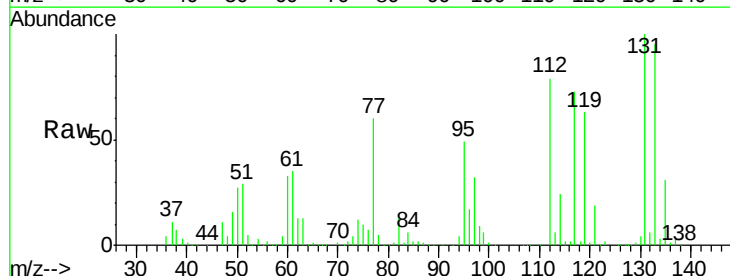
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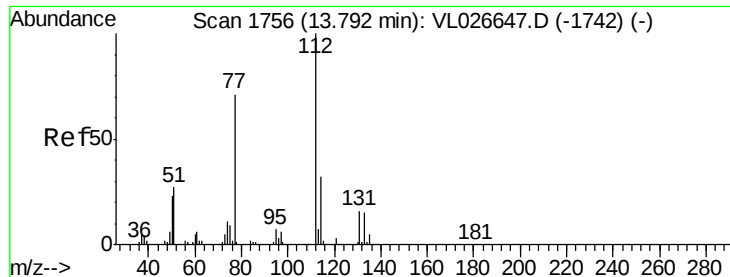
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#56
1,1,1,2-Tetrachloroethane
Concen: 14.26 ppbv
RT: 13.77 min Scan# 1752
Delta R.T. 0.00 min
Lab File: VL026653.D
Acq: 8 Jan 2016 19:20

Tgt Ion:131 Resp: 2032684
Ion Ratio Lower Upper
131 100
133 95.2 76.2 114.4
119 105.6 104.3 156.5





#57

Chlorobenzene

Concen: 13.60 ppbv

RT: 13.79 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:112 Resp: 4097638

Ion Ratio Lower Upper

112 100

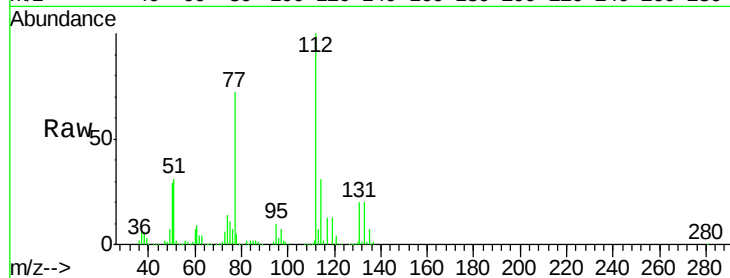
77 72.3 56.9 85.3

114 31.5 28.8 35.2

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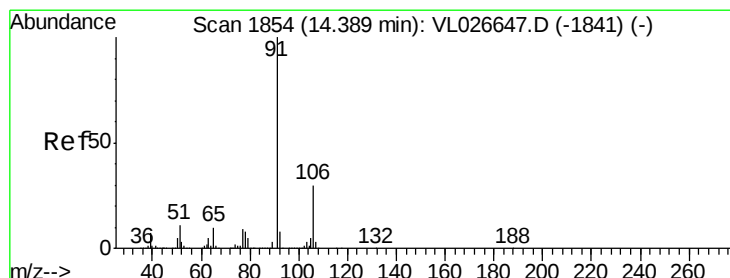
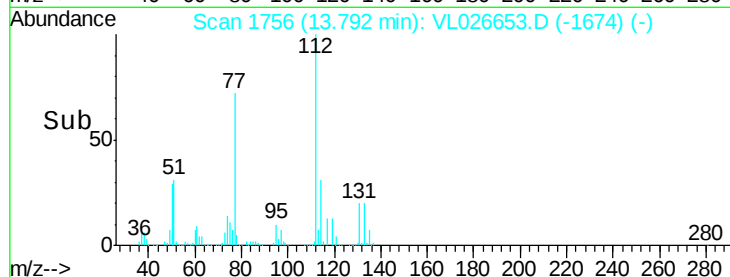
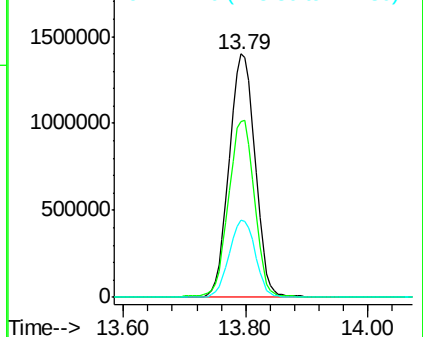
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 13.82 ppbv

RT: 14.39 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VL026653.D

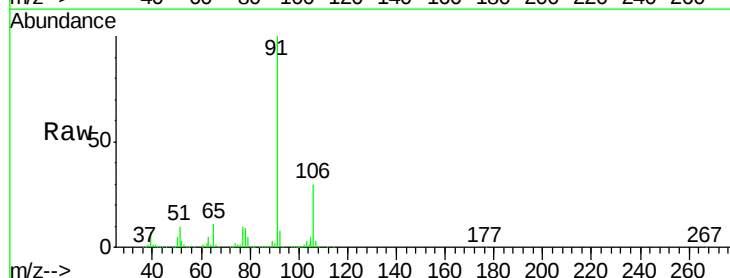
Acq: 8 Jan 2016 19:20

Tgt Ion: 91 Resp: 7962982

Ion Ratio Lower Upper

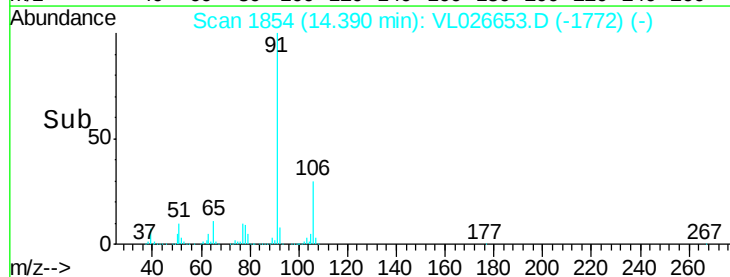
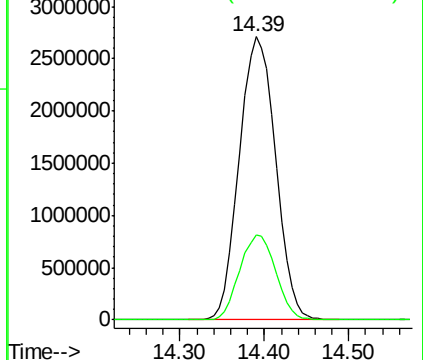
91 100

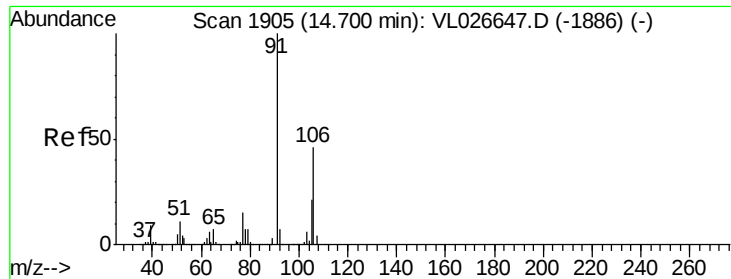
106 29.9 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





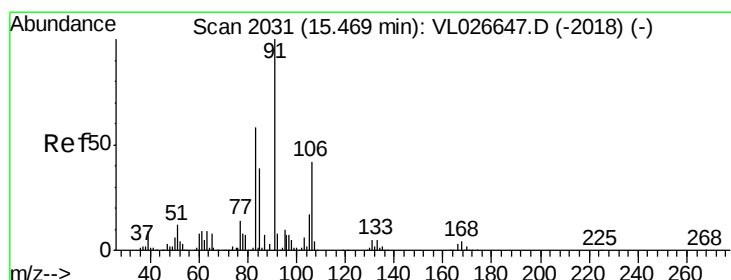
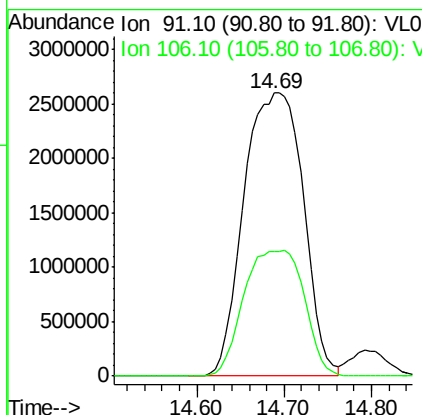
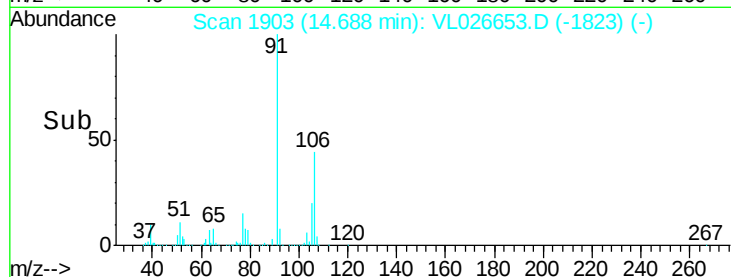
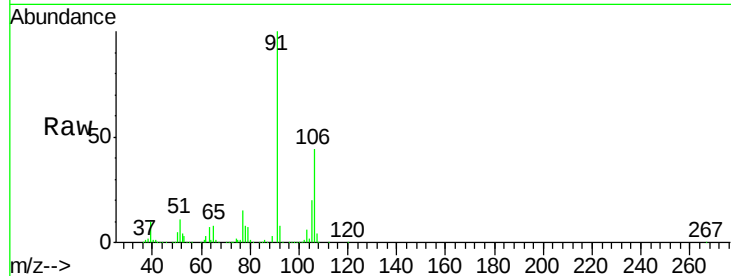
#59
m/p-Xylene
Concen: 27.42 ppbv
RT: 14.69 min Scan# 1903
Delta R.T. -0.01 min
Lab File: VL026653.D
Acq: 8 Jan 2016 19:20

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 91 Resp:12251889
Ion Ratio Lower Upper
91 100
106 45.5 36.6 55.0

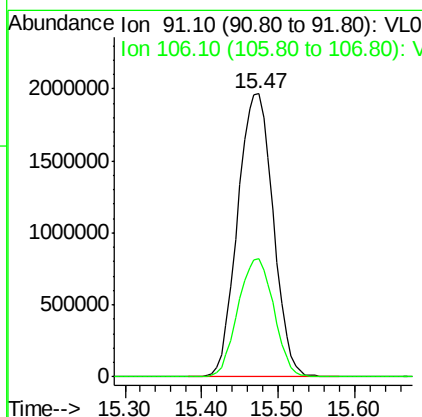
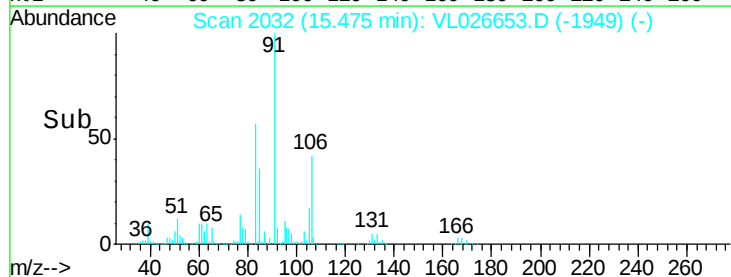
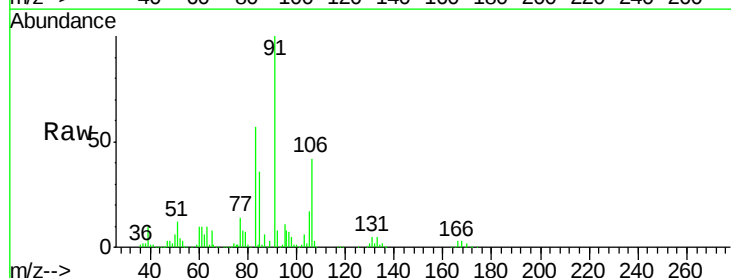
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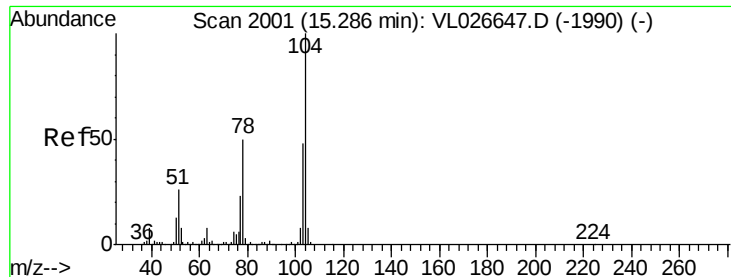
apatel
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#60
o-Xylene
Concen: 13.70 ppbv
RT: 15.47 min Scan# 2032
Delta R.T. 0.01 min
Lab File: VL026653.D
Acq: 8 Jan 2016 19:20

Tgt Ion: 91 Resp: 6341133
Ion Ratio Lower Upper
91 100
106 42.4 21.4 64.3





#61

Stvrene

Concen: 14.31 ppbv

RT: 15.29 min Scan# 2001

Delta R.T. 0.00 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:104 Resp: 3152580

Ion Ratio Lower Upper

104 100

78 49.9 39.5 59.3

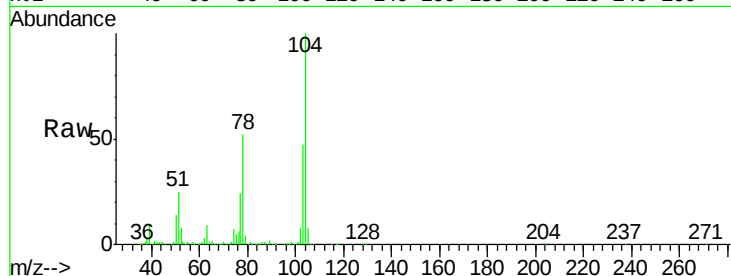
103 47.0 37.8 56.6

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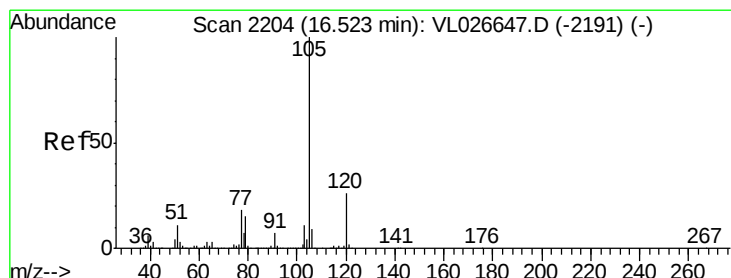
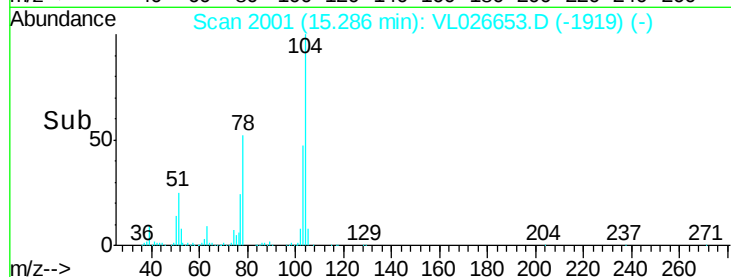
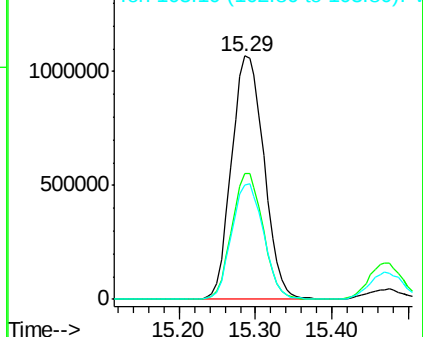
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 13.97 ppbv

RT: 16.52 min Scan# 2204

Delta R.T. 0.00 min

Lab File: VL026653.D

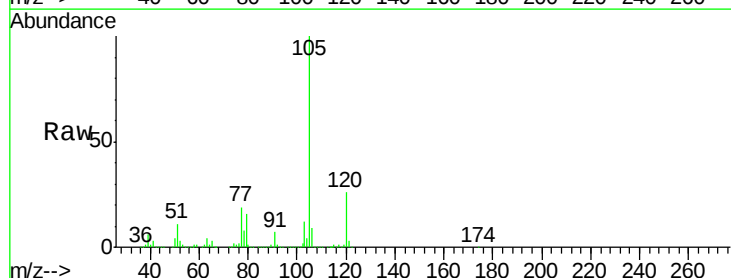
Acq: 8 Jan 2016 19:20

Tgt Ion:105 Resp: 9001606

Ion Ratio Lower Upper

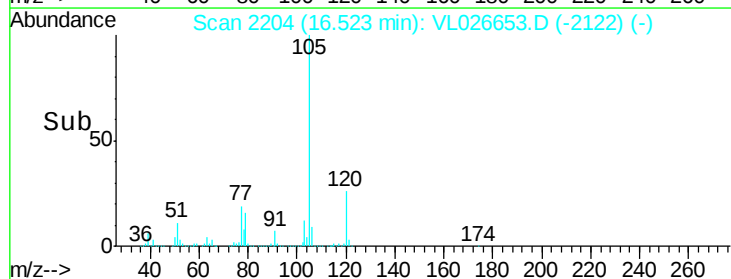
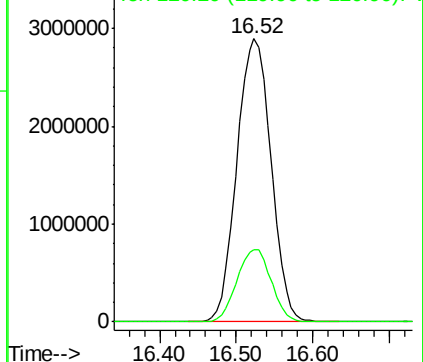
105 100

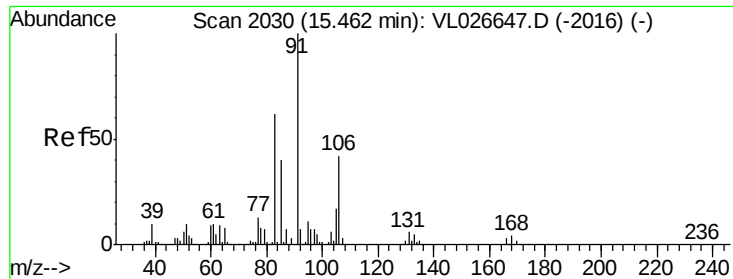
120 25.6 20.3 30.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 13.48 ppbv

RT: 15.47 min Scan# 2031

Delta R.T. 0.01 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 83 Resp: 3995672

Ion Ratio Lower Upper

83 100

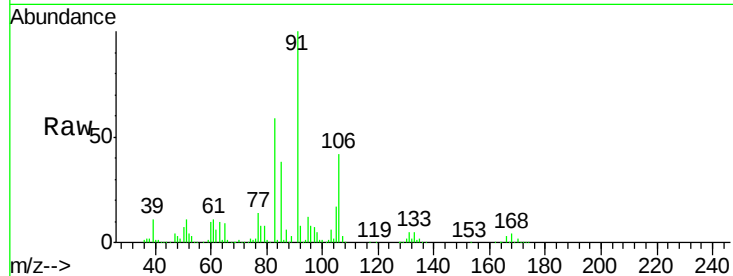
131 9.1 4.5 13.4

85 64.4 32.6 97.7

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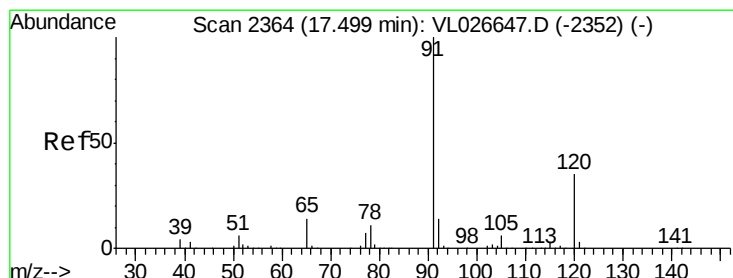
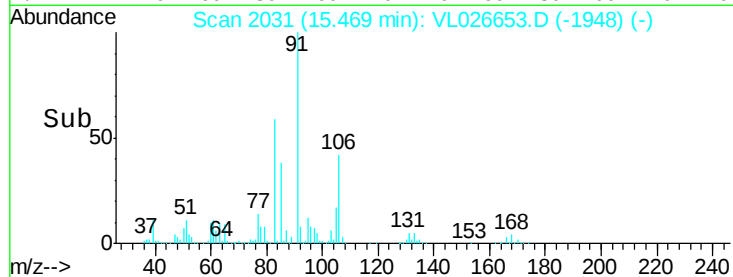
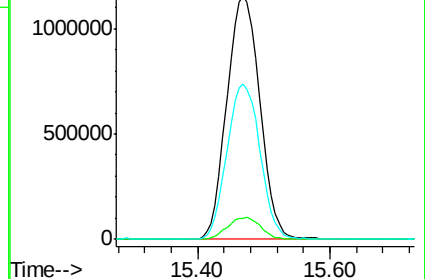
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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 14.18 ppbv

RT: 17.50 min Scan# 2364

Delta R.T. 0.00 min

Lab File: VL026653.D

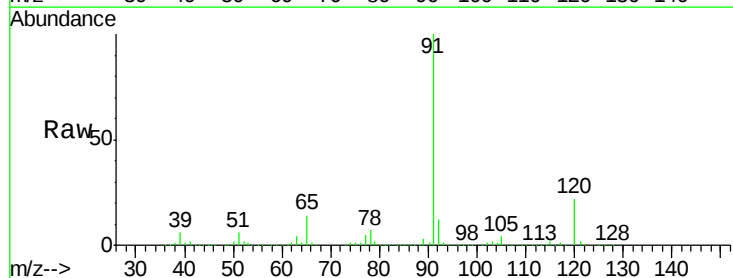
Acq: 8 Jan 2016 19:20

Tgt Ion:120 Resp: 2422331

Ion Ratio Lower Upper

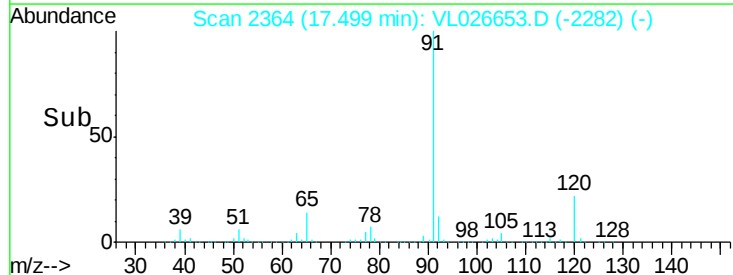
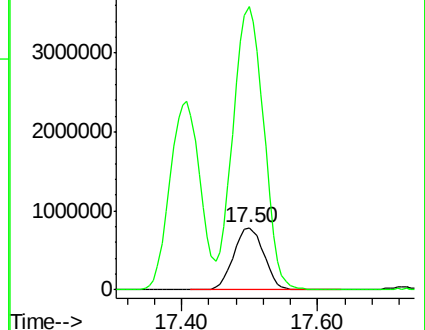
120 100

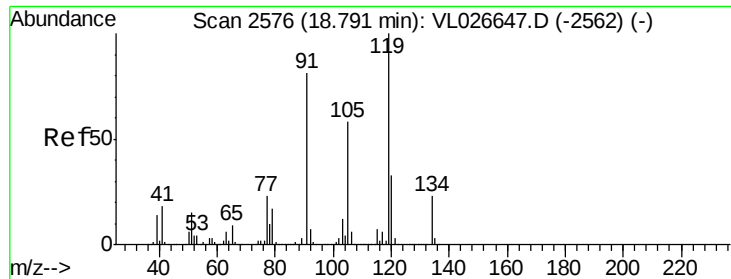
91 458.4 380.9 571.3



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





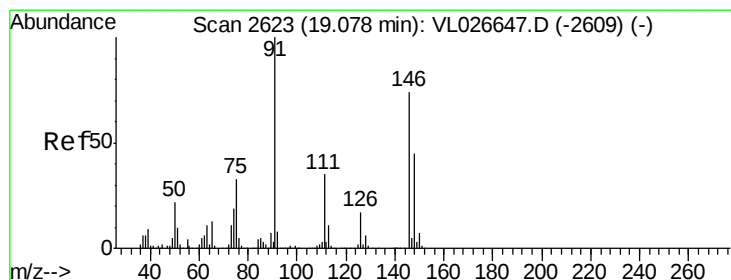
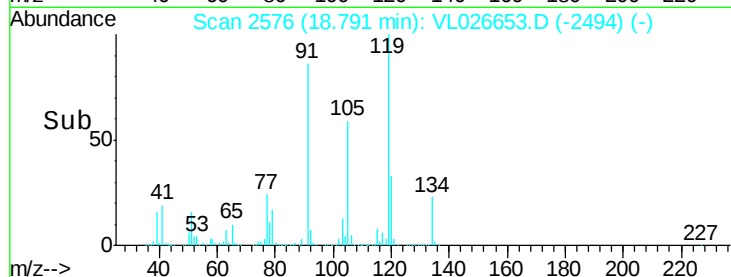
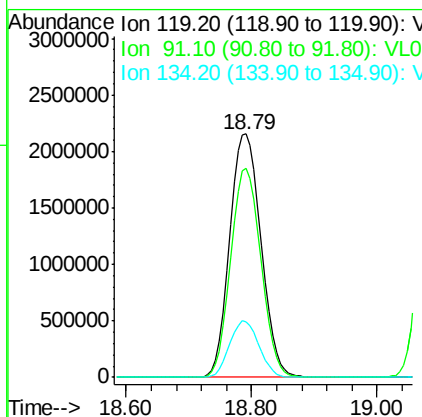
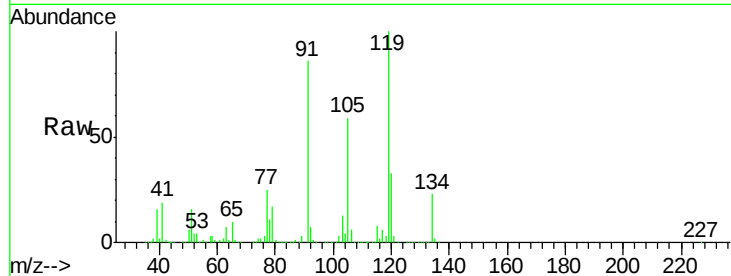
#65
 tert-Butylbenzene
 Concen: 13.89 ppbv
 RT: 18.79 min Scan# 2576
 Delta R.T. 0.00 min
 Lab File: VL026653.D
 Acq: 8 Jan 2016 19:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:119 Resp: 7455878
 Ion Ratio Lower Upper
 119 100
 91 83.0 64.8 97.2
 134 21.8 17.4 26.0

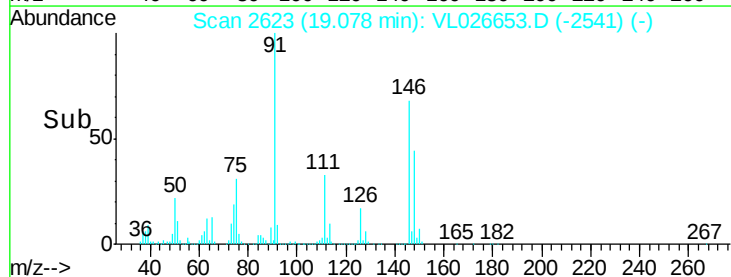
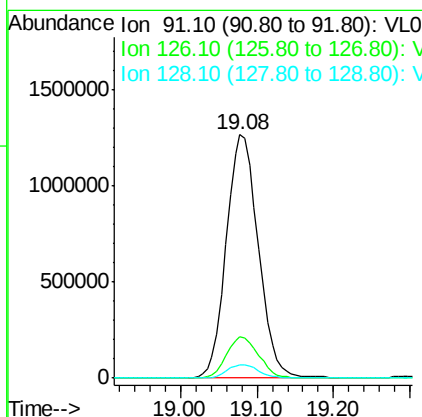
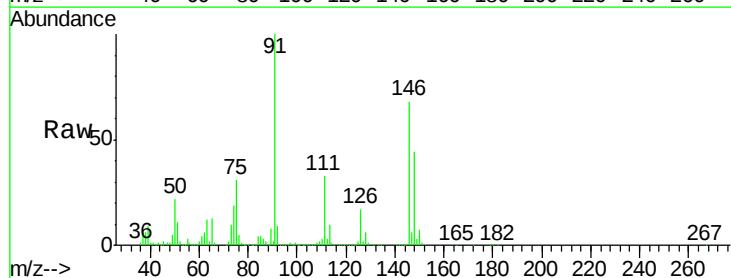
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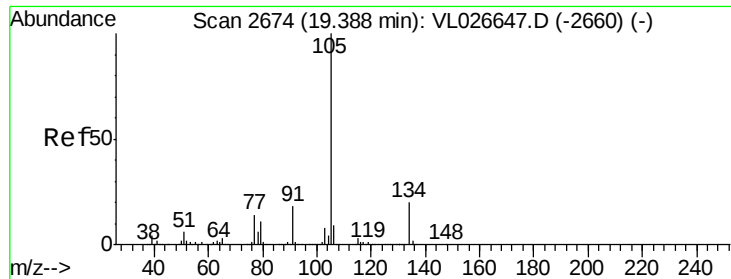
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#66
 Benzyl Chloride
 Concen: 14.66 ppbv
 RT: 19.08 min Scan# 2623
 Delta R.T. 0.00 min
 Lab File: VL026653.D
 Acq: 8 Jan 2016 19:20

Tgt Ion: 91 Resp: 3652608
 Ion Ratio Lower Upper
 91 100
 126 17.3 14.2 21.2
 128 5.5 4.5 6.7





#67

sec-Butylbenzene

Concen: 13.94 ppbv

RT: 19.39 min Scan# 2674

Delta R.T. 0.00 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp:11640745

Ion Ratio Lower Upper

105 100

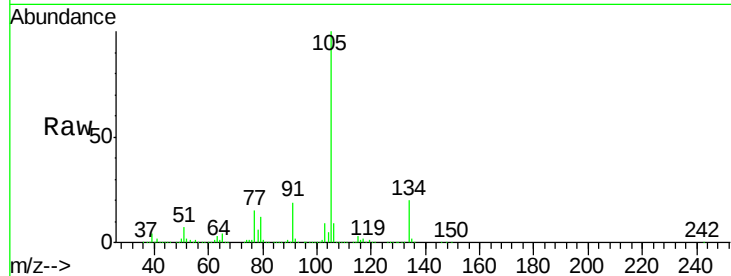
134 19.2 14.9 22.3

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

19.39

4000000

3000000

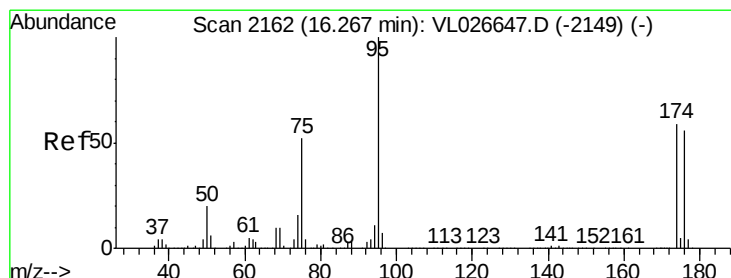
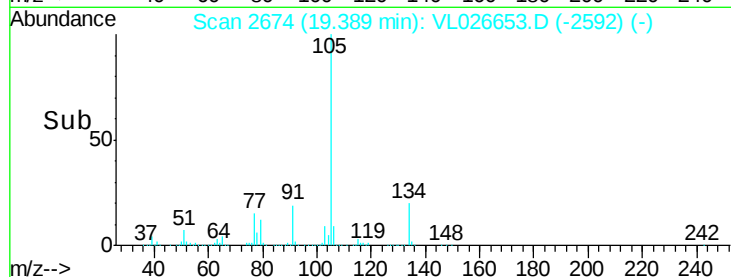
2000000

1000000

0

Time--> 19.20

19.40



#68

1-Bromo-4-Fluorobenzene

Concen: 9.97 ppbv

RT: 16.27 min Scan# 2162

Delta R.T. 0.00 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

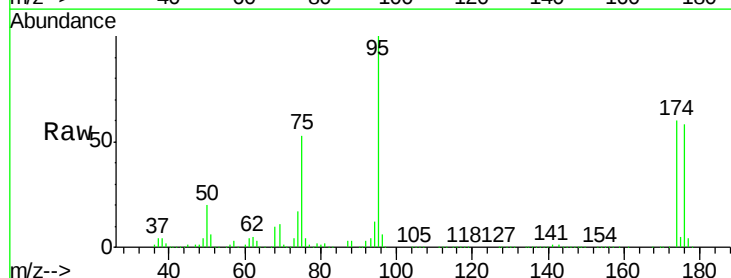
Tgt Ion: 95 Resp: 2594449

Ion Ratio Lower Upper

95 100

174 60.7 47.8 71.6

175 4.4 3.5 5.3



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

1200000

1000000

800000

600000

400000

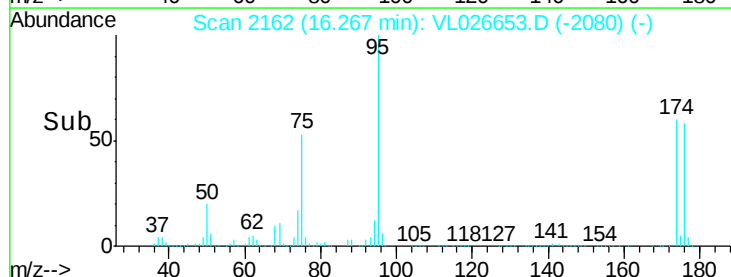
200000

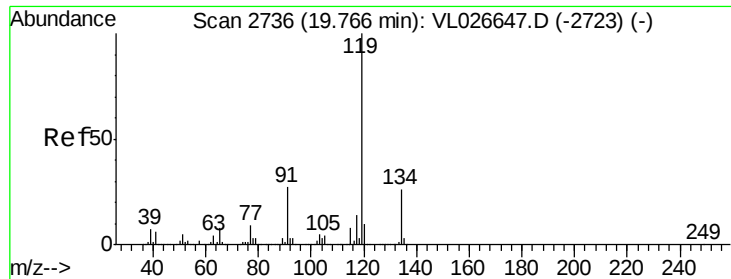
0

Time--> 16.20

16.30

16.40





#69

p-Isopropyltoluene

Concen: 14.23 ppbv

RT: 19.77 min Scan# 2736

Delta R.T. 0.00 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 119 Resp: 9349839

Ion Ratio Lower Upper

119 100

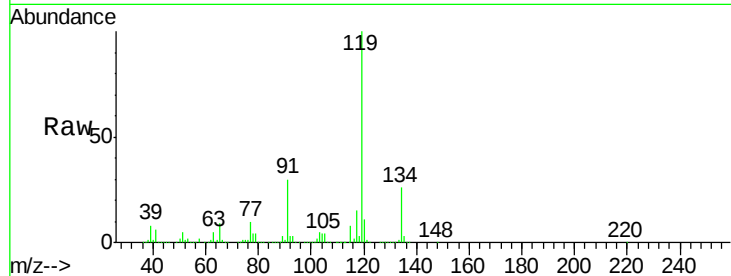
134 26.0 20.6 31.0

91 28.0 21.8 32.6

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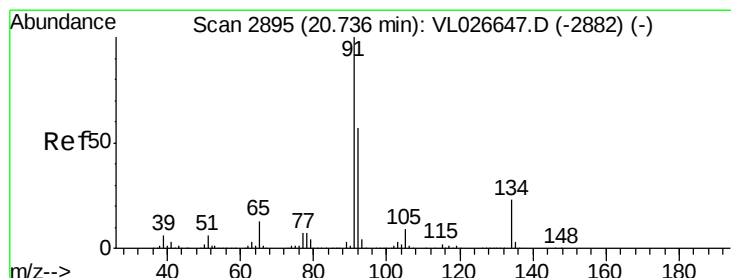
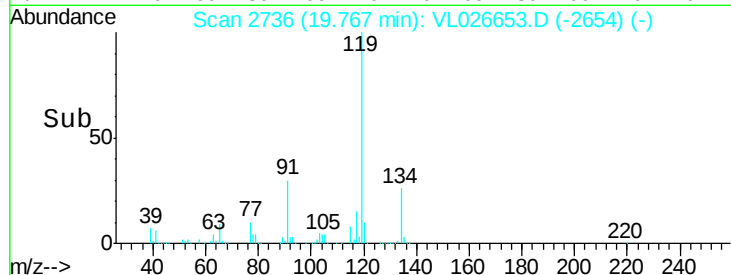
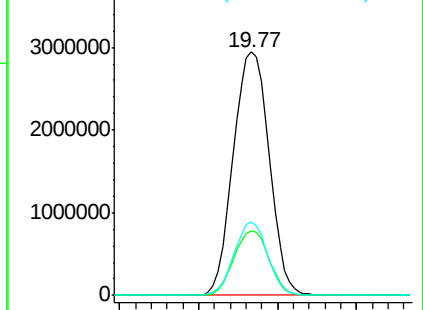
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Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 14.28 ppbv

RT: 20.74 min Scan# 2895

Delta R.T. 0.00 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

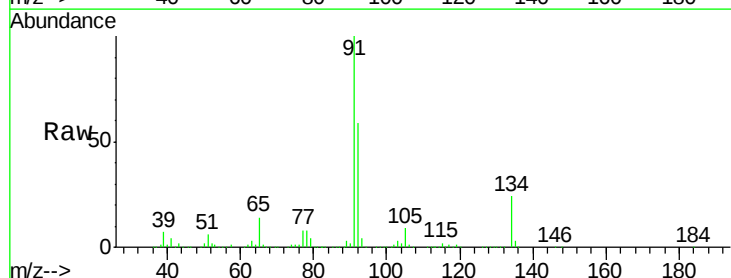
Tgt Ion: 91 Resp: 9880127

Ion Ratio Lower Upper

91 100

92 57.1 45.0 67.6

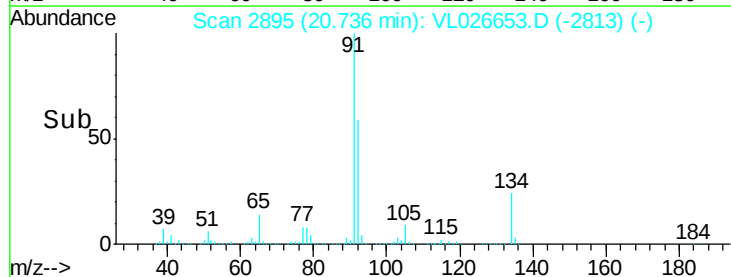
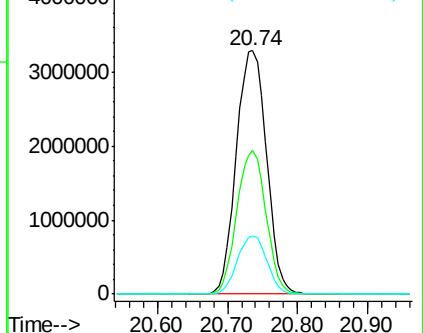
134 23.3 18.2 27.2

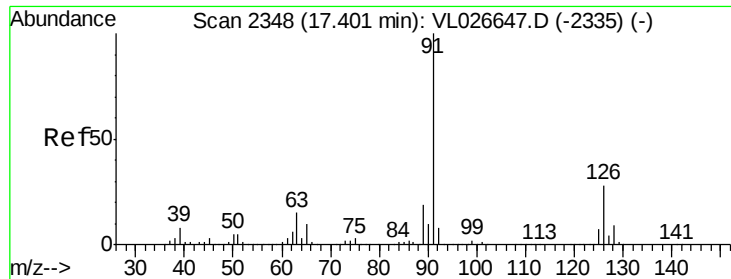


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





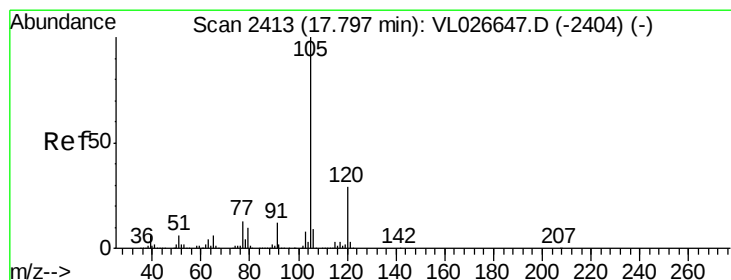
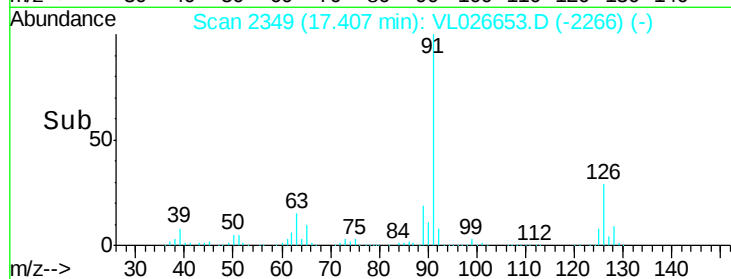
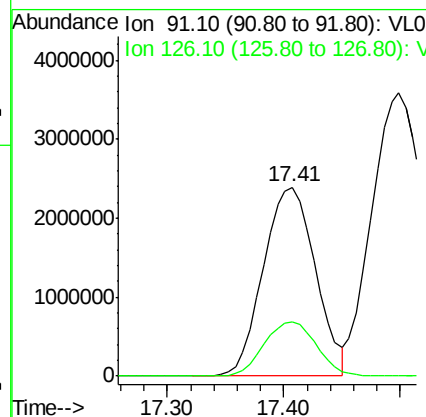
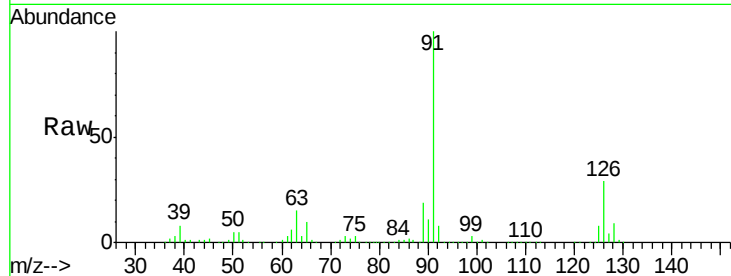
#71
 2-Chlorotoluene
 Concen: 14.15 ppbv
 RT: 17.41 min Scan# 2349
 Delta R.T. 0.01 min
 Lab File: VL026653.D
 Acq: 8 Jan 2016 19:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 91 Resp: 7419733
 Ion Ratio Lower Upper
 91 100
 126 28.9 11.4 45.8

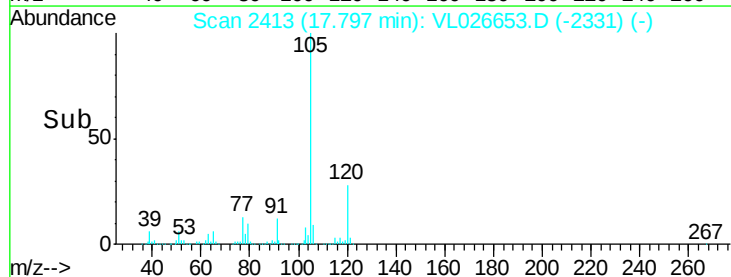
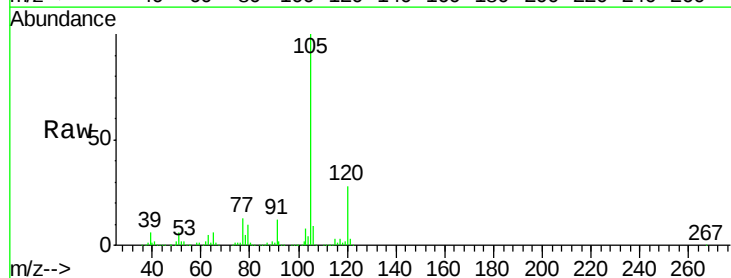
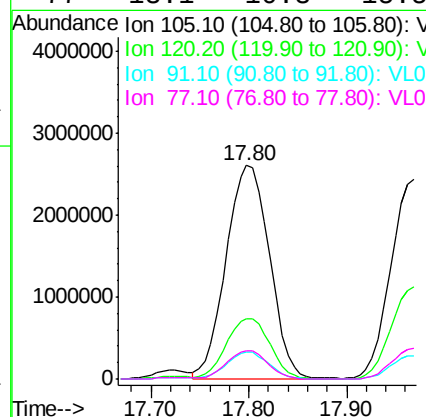
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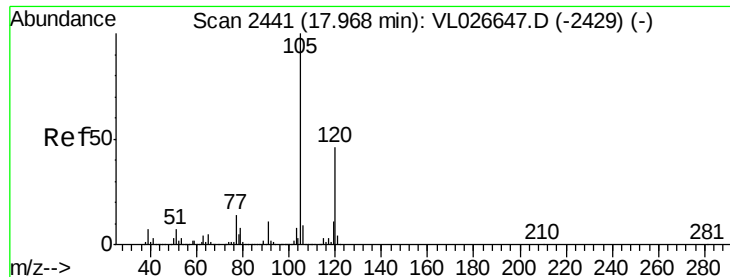
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#72
 4-Ethyltoluene
 Concen: 14.23 ppbv
 RT: 17.80 min Scan# 2413
 Delta R.T. 0.00 min
 Lab File: VL026653.D
 Acq: 8 Jan 2016 19:20

Tgt Ion: 105 Resp: 8018511
 Ion Ratio Lower Upper
 105 100
 120 29.6 23.8 35.6
 91 12.4 9.5 14.3
 77 13.1 10.3 15.5





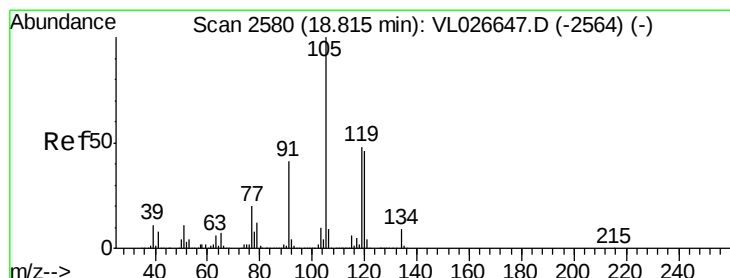
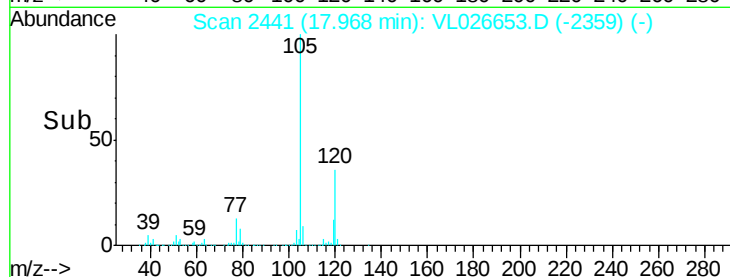
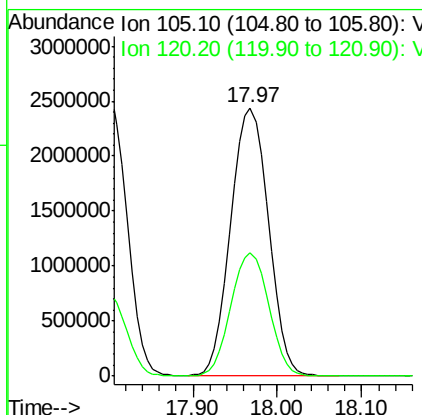
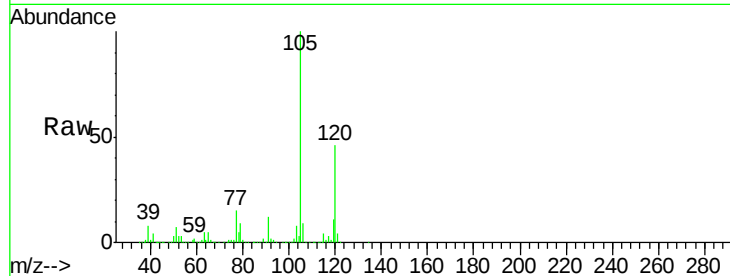
#73
 1,3,5-Trimethylbenzene
 Concen: 14.34 ppbv
 RT: 17.97 min Scan# 2441
 Delta R.T. 0.00 min
 Lab File: VL026653.D
 Acq: 8 Jan 2016 19:20

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC015

Tot Ion:105 Resp: 7425592
 Ion Ratio Lower Upper
 105 100
 120 46.0 36.6 54.8

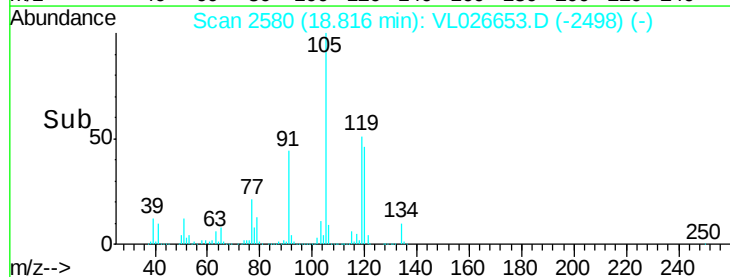
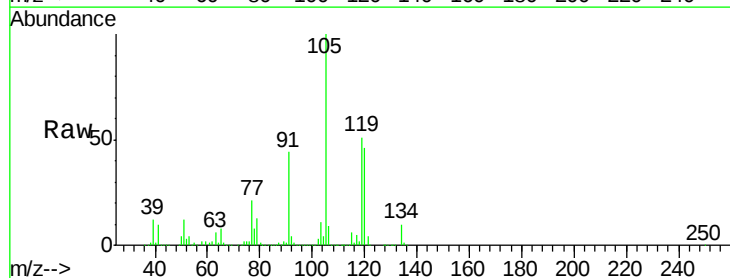
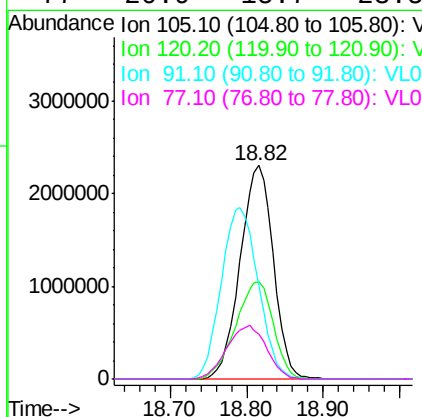
Manual Integrations
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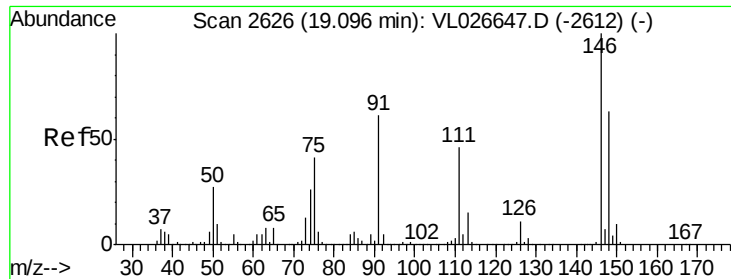
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#74
 1,2,4-Trimethylbenzene
 Concen: 13.81 ppbv
 RT: 18.82 min Scan# 2580
 Delta R.T. 0.00 min
 Lab File: VL026653.D
 Acq: 8 Jan 2016 19:20

Tgt Ion:105 Resp: 6966468
 Ion Ratio Lower Upper
 105 100
 120 45.6 36.6 55.0
 91 43.8 32.5 48.7
 77 20.9 15.7 23.5





#75

1,3-Dichlorobenzene

Concen: 14.15 ppbv

RT: 19.10 min Scan# 2626

Delta R.T. 0.00 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 4446774

Ion Ratio Lower Upper

146 100

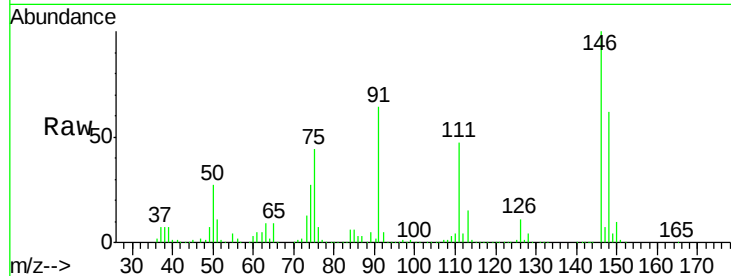
111 46.7 22.9 68.5

148 63.5 31.6 95.0

Manual Integrations
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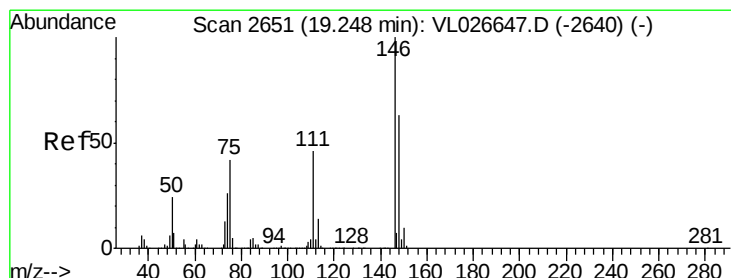
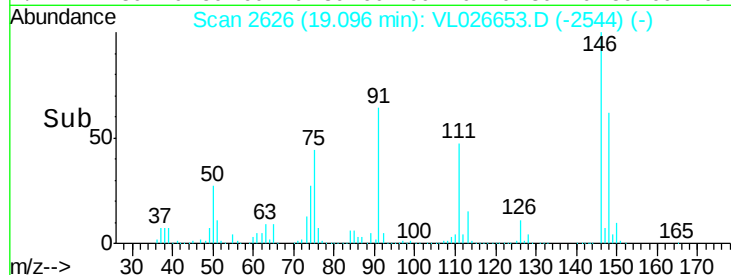
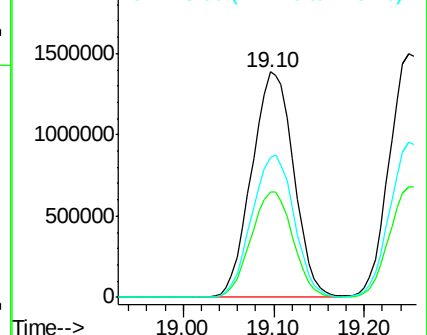
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 14.40 ppbv

RT: 19.25 min Scan# 2651

Delta R.T. 0.00 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

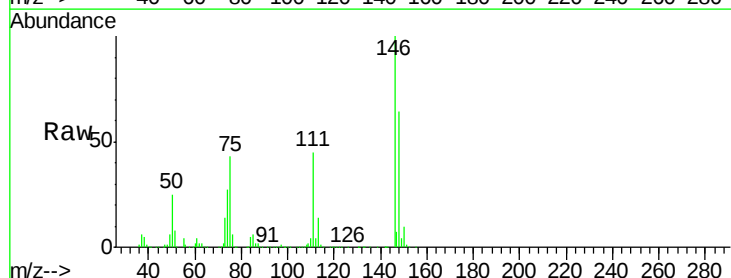
Tgt Ion:146 Resp: 4764037

Ion Ratio Lower Upper

146 100

111 44.7 22.3 66.8

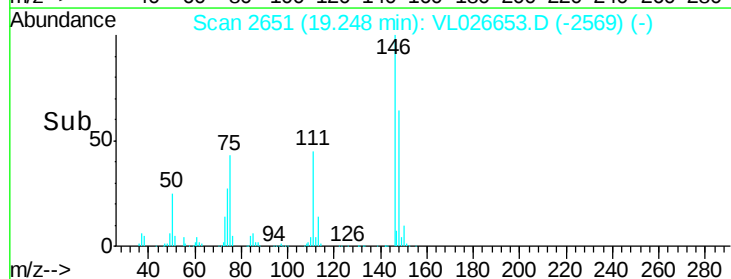
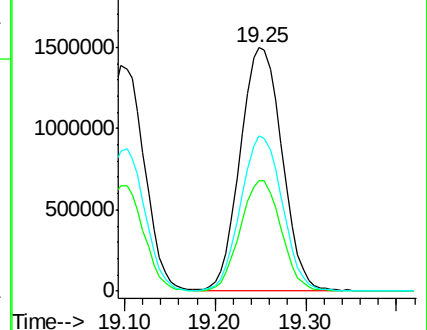
148 63.8 31.9 95.9

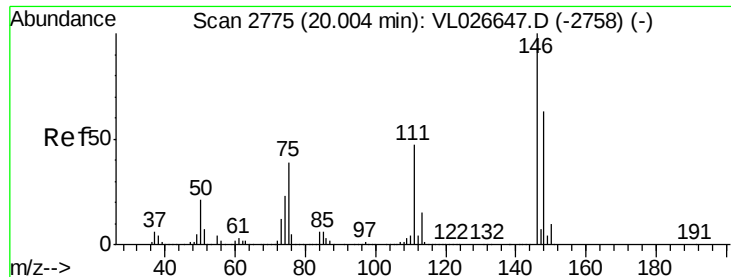


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 14.60 ppbv

RT: 20.00 min Scan# 2775

Delta R.T. 0.00 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Instrument :

MSVOA_L

ClientSampled :

VSTDIC015

Tot Ion:146 Resp: 4792476

Ion Ratio Lower Upper

146 100

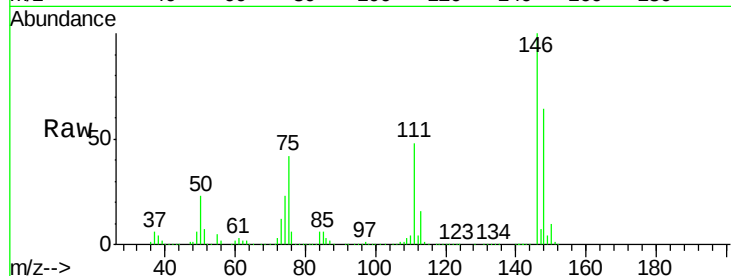
111 47.9 23.7 71.1

148 63.5 31.1 93.5

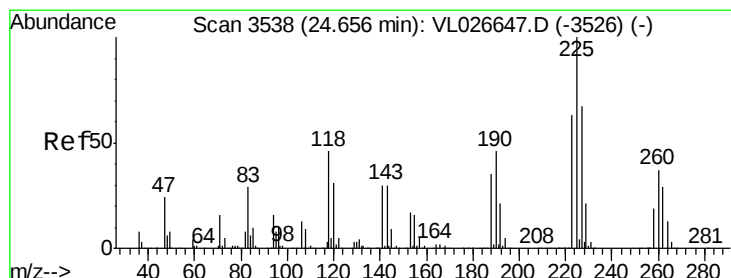
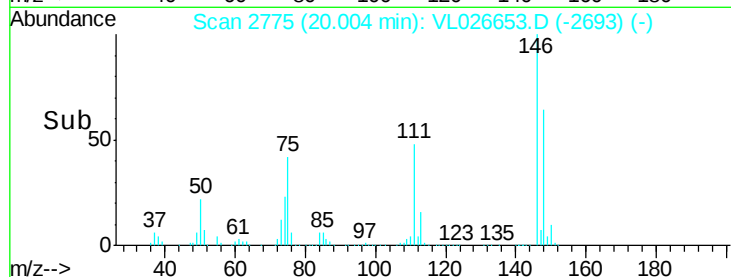
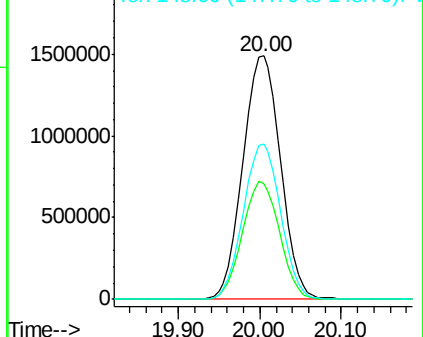
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 13.74 ppbv

RT: 24.65 min Scan# 3537

Delta R.T. -0.01 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

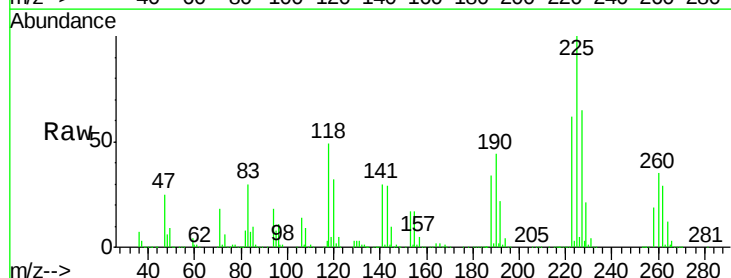
Tgt Ion:225 Resp: 1798500

Ion Ratio Lower Upper

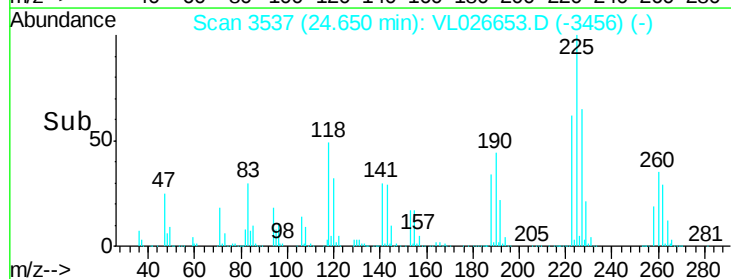
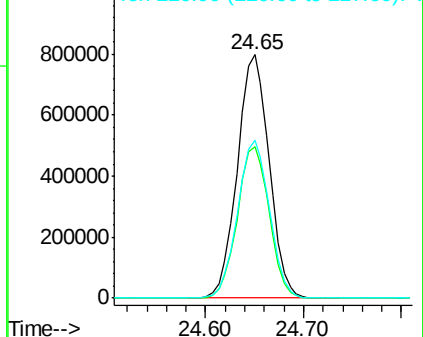
225 100

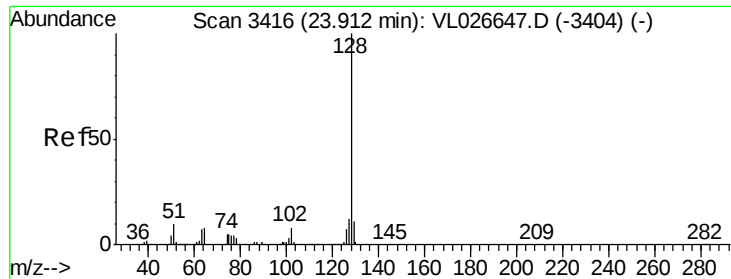
223 62.5 50.0 75.0

227 65.1 51.1 76.7



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: 14.82 ppbv

RT: 23.91 min Scan# 3415

Delta R.T. -0.01 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:128 Resp: 5852747

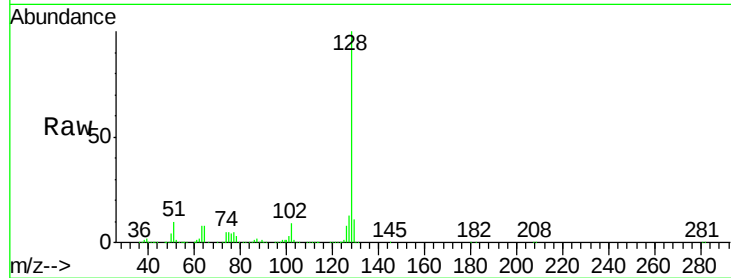
Ion	Ratio	Lower	Upper
128	100		
127	12.9	9.8	14.8
129	11.2	8.9	13.3

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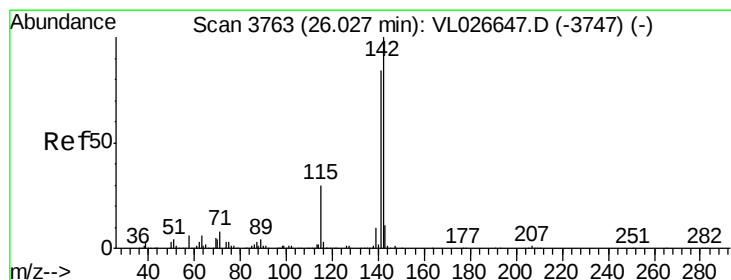
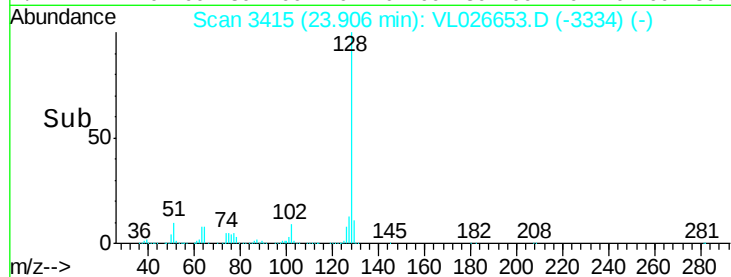
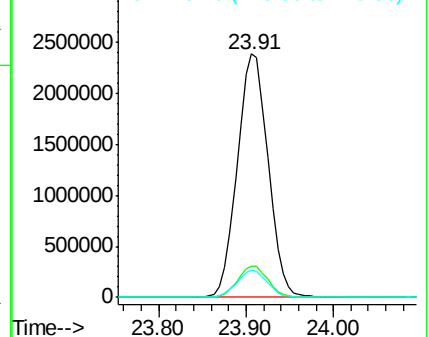
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Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 8.21 ppbv

RT: 26.02 min Scan# 3761

Delta R.T. -0.01 min

Lab File: VL026653.D

Acq: 8 Jan 2016 19:20

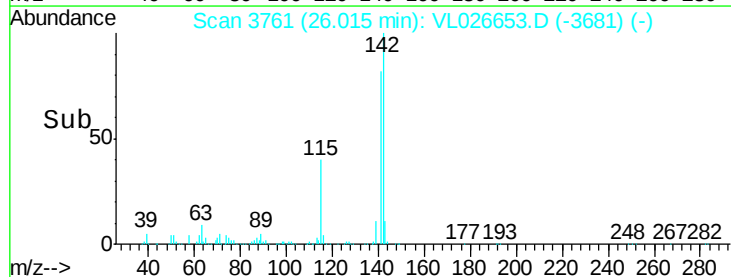
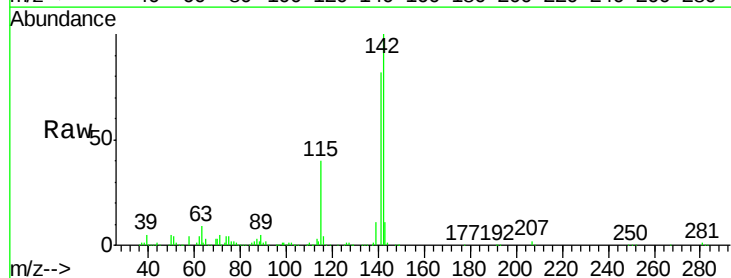
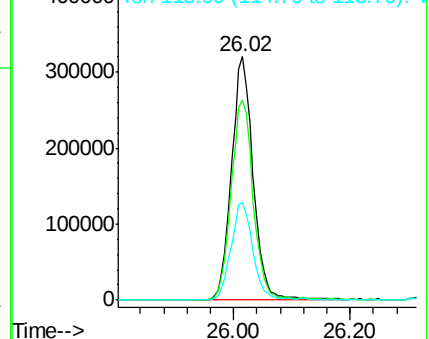
Tgt Ion:142 Resp: 828078

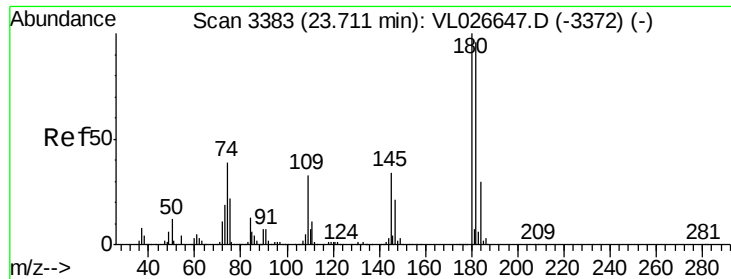
Ion	Ratio	Lower	Upper
142	100		
141	85.1	66.8	100.2
115	41.3	24.7	37.1#

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: 14.73 ppbv
 RT: 23.71 min Scan# 3383
 Delta R.T. 0.00 min
 Lab File: VL026653.D
 Acq: 8 Jan 2016 19:20

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.2	75.5	113.3
184	30.3	24.1	36.1

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