

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL111115\
 Data File : VL026362.D
 Acq On : 11 Nov 2015 12:24
 Operator : SY/AP
 Sample : VL1111ABS01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1111ABS01

Manual Integrations
 APPROVED

mohammad
 11/12/2015 6:51:49 PM

Quant Time: Nov 12 17:32:52 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102915AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 29 14:29:54 2015
 QLast Update : Thu Oct 29 14:29:54 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.67	49	514815	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	8.35	114	1453483	10.00	ppbv	-0.02
55) Chlorobenzene-d5	13.77	117	1720942m	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.31	95	1235831	9.47	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.65	85	1110422	10.07	ppbv	99
3) Chlorodifluoromethane	3.58	51	635746	9.81	ppbv	100
4) Chloromethane	3.76	50	397233	10.73	ppbv	98
5) Vinyl Chloride	3.90	62	410741	10.08	ppbv	99
6) Bromomethane	4.15	94	287896	10.70	ppbv	98
7) Chloroethane	4.25	64	175114	10.84	ppbv	100
8) Dichlorotetrafluoroethane	3.81	85	954282	10.20	ppbv	100
9) Propene	3.60	41	326138	10.45	ppbv	98
10) Heptane	9.37	43	1100947	10.47	ppbv	100
11) Trichlorofluoromethane	4.70	101	1065532	10.21	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	5.32	101	717853	10.31	ppbv	99
13) Ethanol	4.34	45	41690	8.93	ppbv	98
14) Bromoethene	4.46	108	316103	10.79	ppbv	100
15) Acetone	4.61	43	663984	9.74	ppbv	99
16) 1,3-Butadiene	3.98	39	356020	10.59	ppbv	100
17) tert-Butyl alcohol	5.14	59	532149	10.88	ppbv	99
18) 1,1-Dichloroethene	5.10	96	339498	10.74	ppbv	98
19) Isopropyl Alcohol	4.76	45	307730	10.53	ppbv #	27
20) Methylene Chloride	5.17	84	319004	10.75	ppbv	99
21) Allyl Chloride	5.24	41	528313	11.00	ppbv	99
22) trans-1,2-Dichloroethene	5.78	96	443906	10.52	ppbv	98
23) Vinyl Acetate	6.00	43	1465706	11.16	ppbv	100
24) 1,1-Dichloroethane	5.92	63	934857	10.36	ppbv	99
25) Ethyl Acetate	6.68	43	1522013	10.72	ppbv	100
26) Hexane	6.67	57	747785	10.75	ppbv	100
27) Carbon Disulfide	5.40	76	947406	11.39	ppbv	100
28) Methyl tert-Butyl Ether	5.96	73	1299462	10.67	ppbv	100
29) Chloroform	6.76	83	1081793	10.50	ppbv	100
30) Cyclohexane	8.30	84	723128	10.59	ppbv	99
31) cis-1,2-Dichloroethene	6.53	61	695363	10.86	ppbv	100
32) 1,1,1-Trichloroethane	7.62	97	1083108	9.51	ppbv	99
34) 2-Butanone	6.21	43	952230	10.85	ppbv	99
35) Carbon Tetrachloride	8.18	117	1113095	10.16	ppbv	99
36) Benzene	8.04	78	1646697	10.70	ppbv	98
37) 1,2-Dichloroethane	7.39	62	853596	10.76	ppbv	100
38) Trichloroethene	9.09	130	663484	8.98	ppbv	98
39) 1,2-Dichloropropane	8.84	63	595998	10.64	ppbv	99
40) 1,4-Dioxane	9.13	88	123360	12.88	ppbv	74
41) Tetrahydrofuran	7.13	42	579736	11.43	ppbv	100
42) Bromodichloromethane	9.04	83	1182679	11.13	ppbv	98
43) Methyl Methacrylate	9.28	69	625336	11.43	ppbv	99

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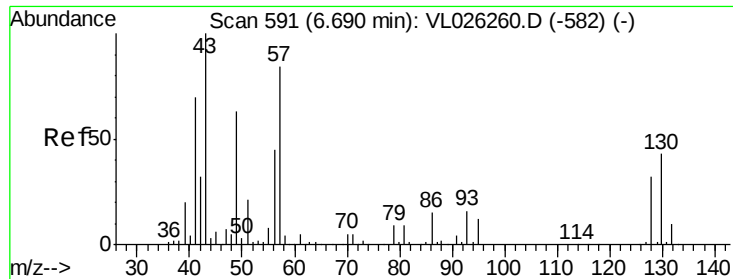
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 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102915AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 29 14:29:54 2015
 QLast Update : Thu Oct 29 14:29:54 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.10	57	2620428	10.44	ppbv	99
45) t-1,3-Dichloropropene	10.67	75	928529	12.04	ppbv	98
46) cis-1,3-Dichloropropene	10.04	75	1085922	11.58	ppbv	98
47) 1,1,2-Trichloroethane	10.90	97	720658	10.64	ppbv	99
48) Dibromochloromethane	11.82	129	1119884	11.57	ppbv	100
49) Bromoform	14.84	173	893602	11.88	ppbv	100
50) 4-Methyl-2-Pentanone	10.10	43	1317755	11.22	ppbv	100
51) 2-Hexanone	11.63	43	1266664	11.84	ppbv #	99
52) Tetrachloroethene	12.82	164	735595	9.48	ppbv	99
53) Toluene	11.26	91	2156552	10.79	ppbv	100
54) 1,2-Dibromoethane	12.16	107	1137833	11.10	ppbv	98
56) 1,1,1,2-Tetrachloroethane	13.81	131	844965	11.20	ppbv	94
57) Chlorobenzene	13.83	112	1817699	10.65	ppbv	98
58) Ethyl Benzene	14.43	91	3062923	10.83	ppbv	100
59) m/p-Xylene	14.74	91	4667292	20.83	ppbv #	100
60) o-Xylene	15.51	91	2380272	10.16	ppbv	100
61) Styrene	15.33	104	1176903	11.82	ppbv	100
62) Isopropylbenzene	16.57	105	3347096	10.53	ppbv	100
63) 1,1,2,2-Tetrachloroethane	15.51	83	1602780	8.80	ppbv	100
64) n-propylbenzene	17.54	120	913729	10.58	ppbv	95
65) tert-Butylbenzene	18.83	119	2898790	10.10	ppbv	99
66) Benzyl Chloride	19.13	91	1082860	12.11	ppbv	98
67) sec-Butylbenzene	19.43	105	4129602	10.15	ppbv	100
69) p-Isopropyltoluene	19.82	119	3436323	10.37	ppbv	99
70) n-Butylbenzene	20.78	91	3302078	10.48	ppbv	100
71) 2-Chlorotoluene	17.45	91	2485994	10.60	ppbv	99
72) 4-Ethyltoluene	17.85	105	2851382	10.84	ppbv	99
73) 1,3,5-Trimethylbenzene	18.01	105	2648579	10.67	ppbv	99
74) 1,2,4-Trimethylbenzene	18.86	105	2616946	10.07	ppbv	97
75) 1,3-Dichlorobenzene	19.14	146	1670590	9.93	ppbv	100
76) 1,4-Dichlorobenzene	19.30	146	1736417	10.15	ppbv	100
77) 1,2-Dichlorobenzene	20.05	146	1694730	10.10	ppbv	100
78) Hexachloro-1,3-Butadiene	24.69	225	649719	9.55	ppbv	100
79) Naphthalene	23.95	128	2114990	11.39	ppbv	99
80) Naphthalene, 2-methyl-	26.07	142	496032	14.47	ppbv	97
81) 1,2,4-Trichlorobenzene	23.75	180	981528	10.58	ppbv	99

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.67 min Scan# 588

Delta R.T. -0.02 min

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Instrument :

MSVOA_L

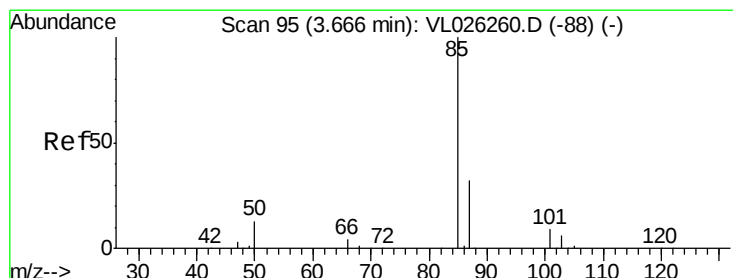
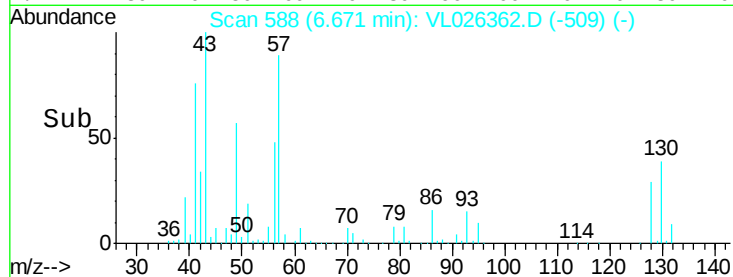
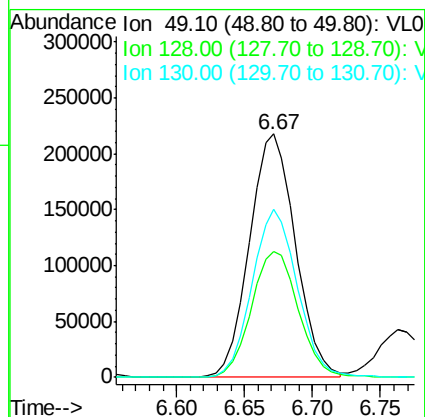
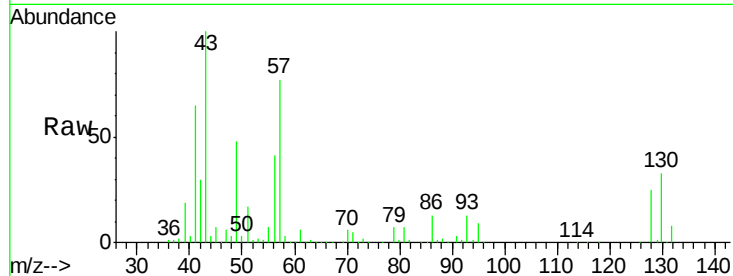
ClientSampleId :

VL1111ABS01

Tot Ion	49	Resp	514815
Ion	Ratio	Lower	Upper
49	100		
128	53.1	26.7	80.1
130	68.4	34.4	103.2

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#2

Dichlorodifluoromethane

Concen: 10.07 ppbv

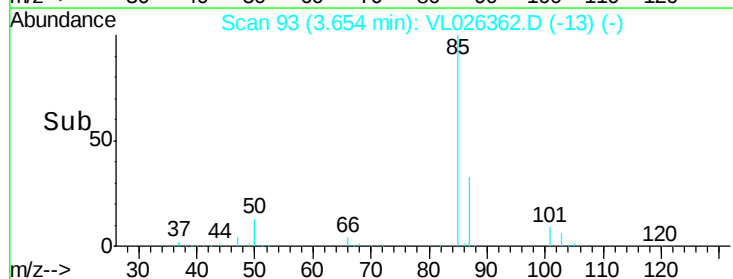
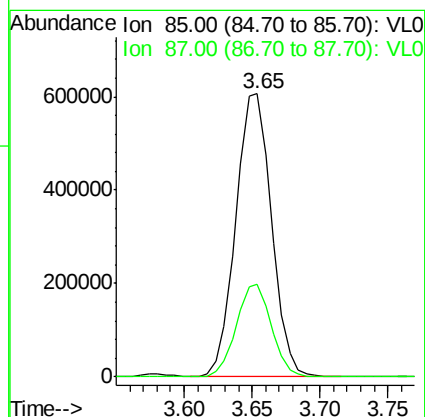
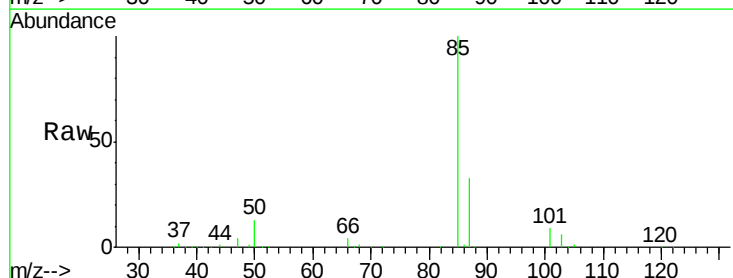
RT: 3.65 min Scan# 93

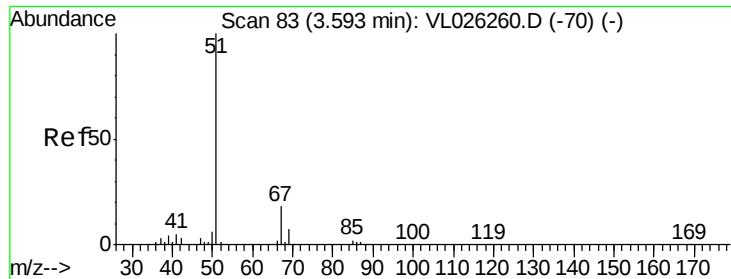
Delta R.T. -0.01 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

Tgt Ion	85	Resp	1110422
Ion	Ratio	Lower	Upper
85	100		
87	32.9	25.9	38.9





#3

Chlorodifluoromethane

Concen: 9.81 ppbv

RT: 3.58 min Scan# 81

Delta R.T. -0.01 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

Tot Ion: 51 Resp: 635746

Ion Ratio Lower Upper

51 100

67 18.1 14.5 21.7

Instrument :

MSVOA_L

ClientSampleId :

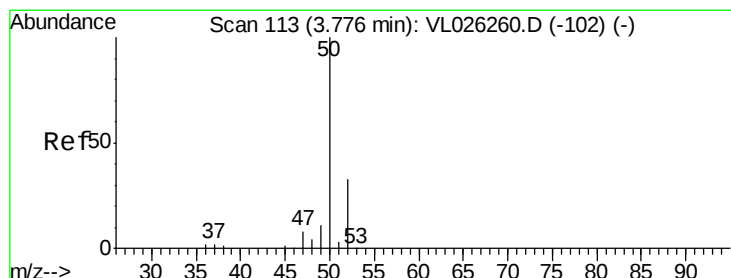
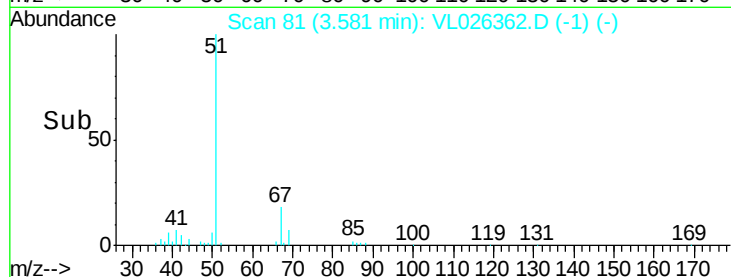
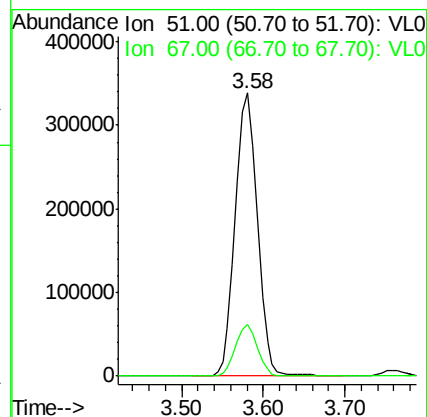
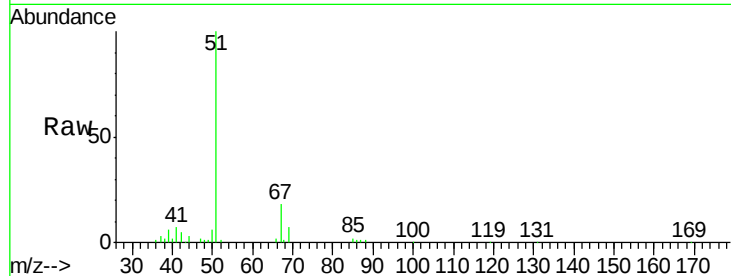
VL1111ABS01

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#4

Chloromethane

Concen: 10.73 ppbv

RT: 3.76 min Scan# 110

Delta R.T. -0.02 min

Lab File: VL026362.D

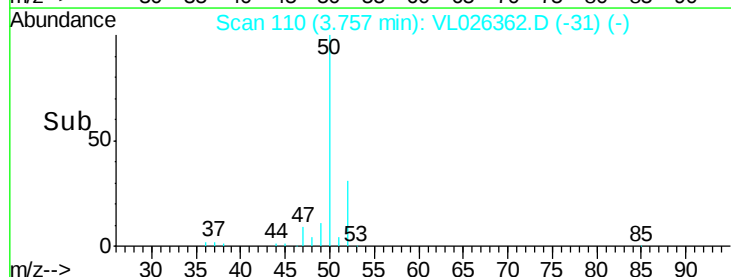
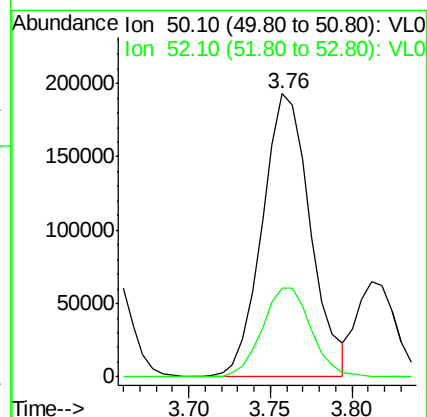
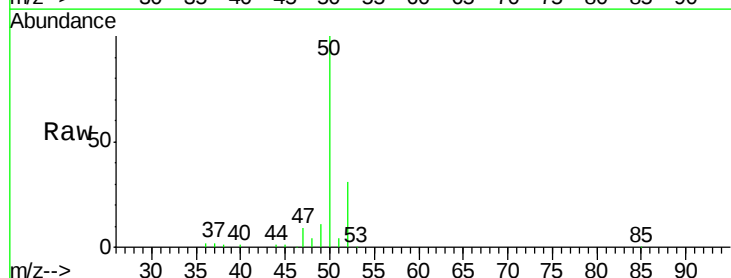
Acq: 11 Nov 2015 12:24

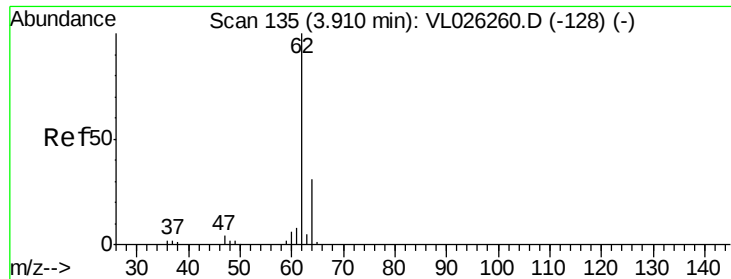
Tgt Ion: 50 Resp: 397233

Ion Ratio Lower Upper

50 100

52 31.4 26.1 39.1





#5

Vinyl Chloride

Concen: 10.08 ppbv

RT: 3.90 min Scan# 133

Delta R.T. -0.01 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

Instrument :

MSVOA_L

ClientSampleID :

VL1111ABS01

Tot Ion: 62 Resp: 410741

Ion Ratio Lower Upper

62 100

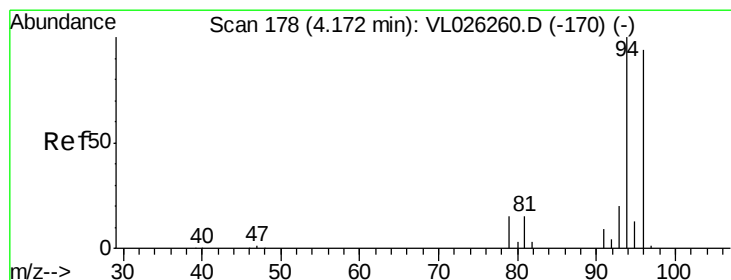
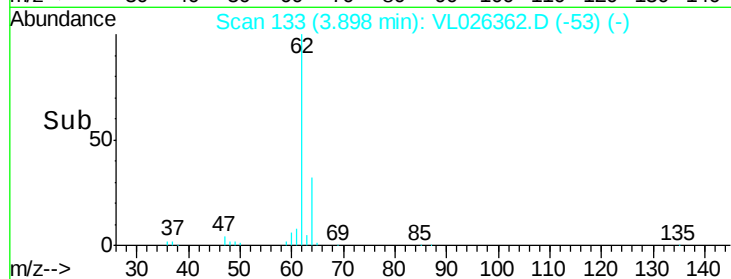
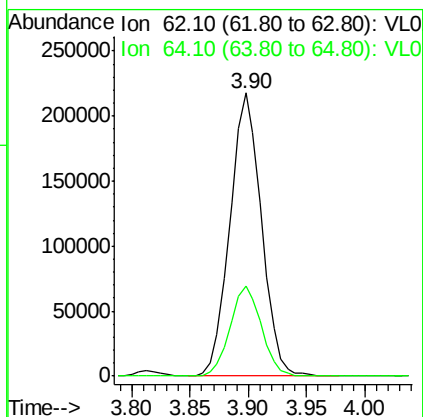
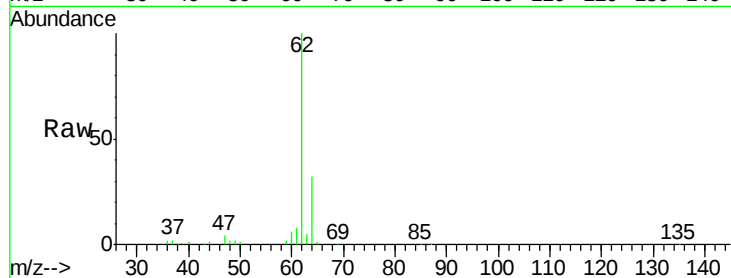
64 31.6 24.9 37.3

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#6

Bromomethane

Concen: 10.70 ppbv

RT: 4.15 min Scan# 175

Delta R.T. -0.02 min

Lab File: VL026362.D

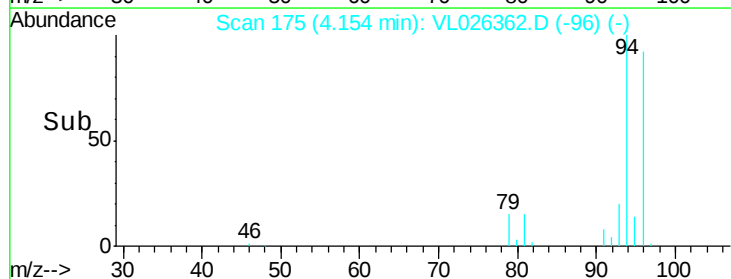
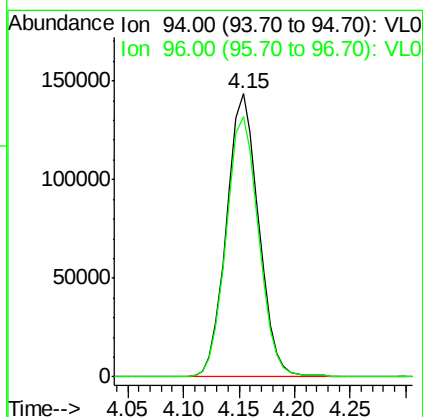
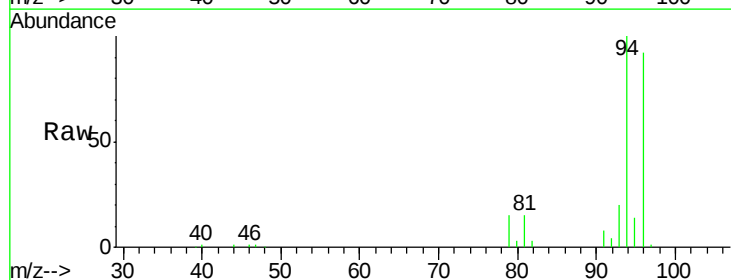
Acq: 11 Nov 2015 12:24

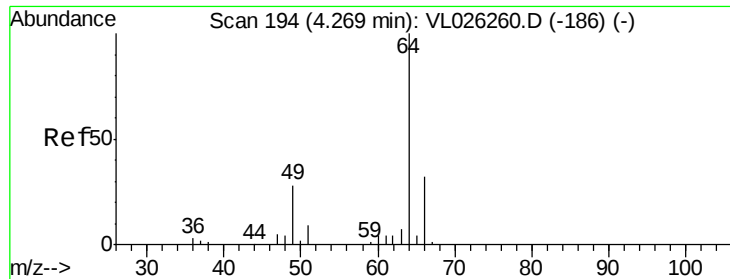
Tgt Ion: 94 Resp: 287896

Ion Ratio Lower Upper

94 100

96 92.2 75.5 113.3





#7

Chloroethane

Concen: 10.84 ppbv

RT: 4.25 min Scan# 191

Delta R.T. -0.02 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

Instrument :

MSVOA_L

ClientSampleId :

VL1111ABS01

Tot Ion: 64 Resp: 175114

Ion Ratio Lower Upper

64 100

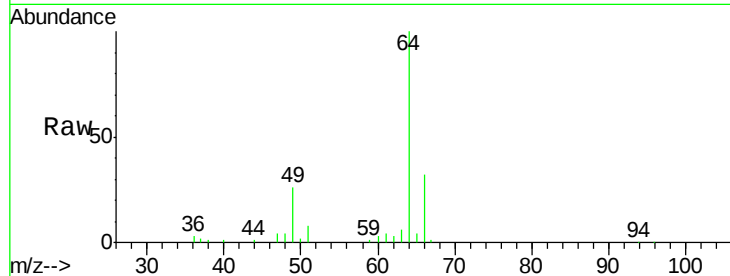
66 31.6 25.2 37.8

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

4.25

100000

80000

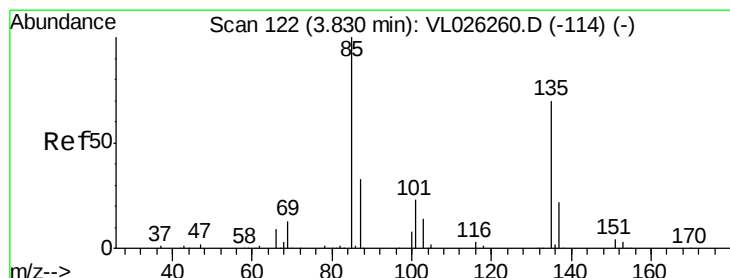
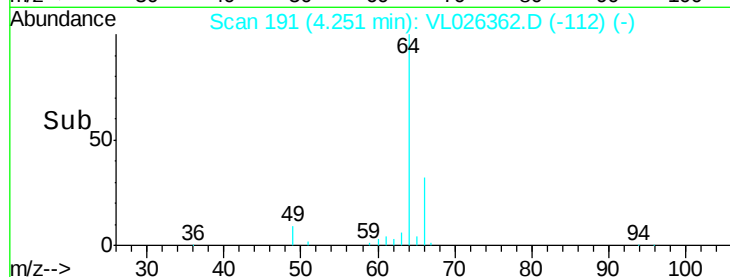
60000

40000

20000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 10.20 ppbv

RT: 3.81 min Scan# 119

Delta R.T. -0.02 min

Lab File: VL026362.D

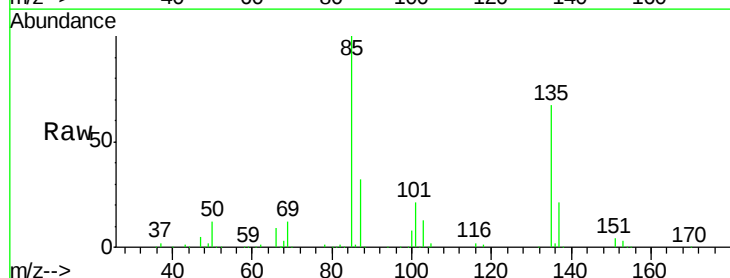
Acq: 11 Nov 2015 12:24

Tgt Ion: 85 Resp: 954282

Ion Ratio Lower Upper

85 100

135 70.4 56.6 84.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.81

600000

500000

400000

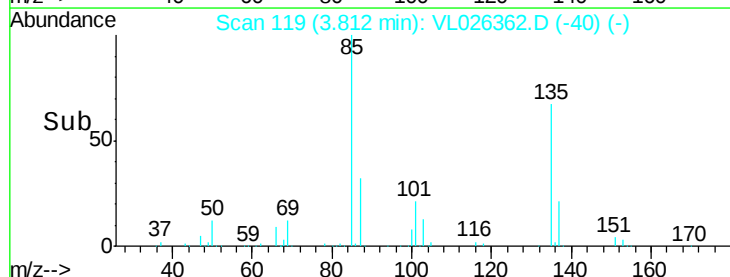
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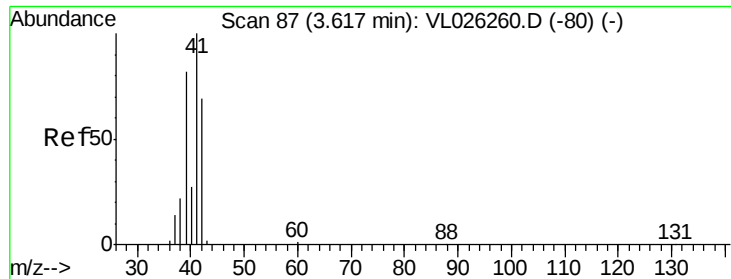
200000

100000

0

Time-->





#9

Propene

Concen: 10.45 ppbv

RT: 3.60 min Scan# 85

Delta R.T. -0.01 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

Instrument :

MSVOA_L

ClientSampleId :

VL1111ABS01

Tot Ion: 41 Resp: 326138

Ion Ratio Lower Upper

41 100

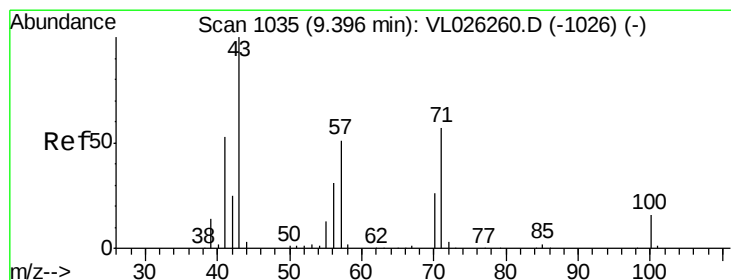
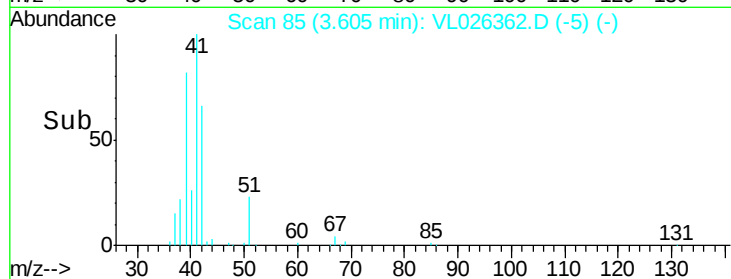
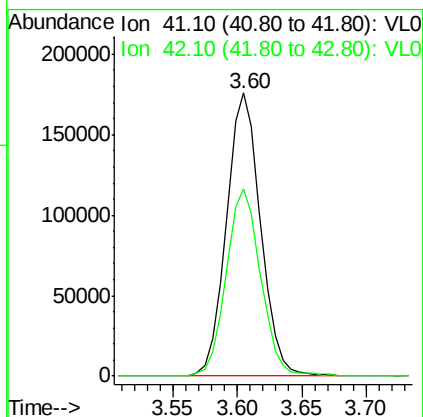
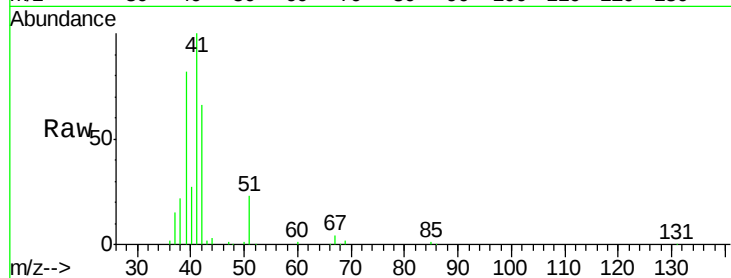
42 66.8 54.5 81.7

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#10

Heptane

Concen: 10.47 ppbv

RT: 9.37 min Scan# 1031

Delta R.T. -0.02 min

Lab File: VL026362.D

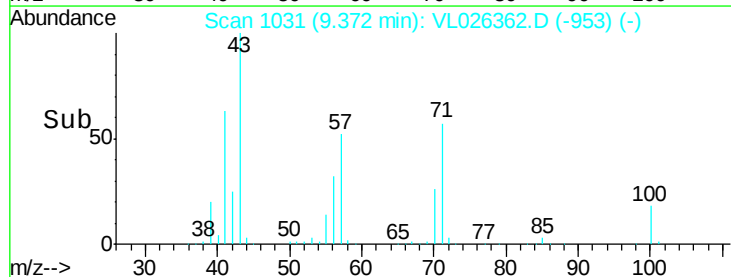
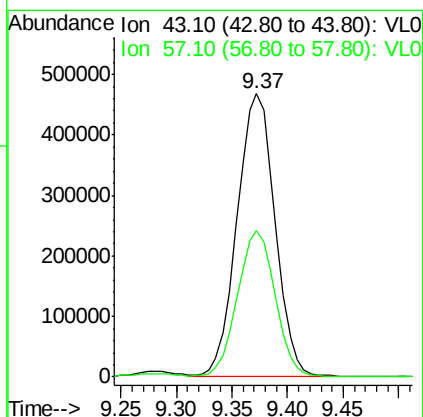
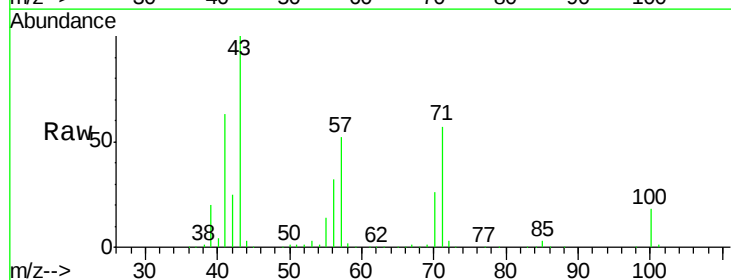
Acq: 11 Nov 2015 12:24

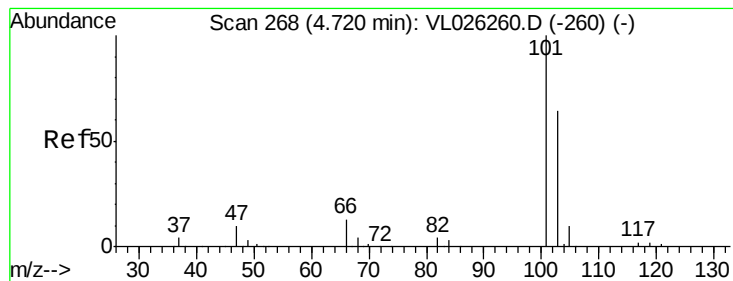
Tgt Ion: 43 Resp: 1100947

Ion Ratio Lower Upper

43 100

57 51.3 41.1 61.7





#11

Trichlorofluoromethane

Concen: 10.21 ppbv

RT: 4.70 min Scan# 265

Delta R.T. -0.02 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

Tot Ion:101 Resp: 106532

Ion Ratio Lower Upper

101 100

103 64.3 51.4 77.0

Instrument :

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ClientSampleId :

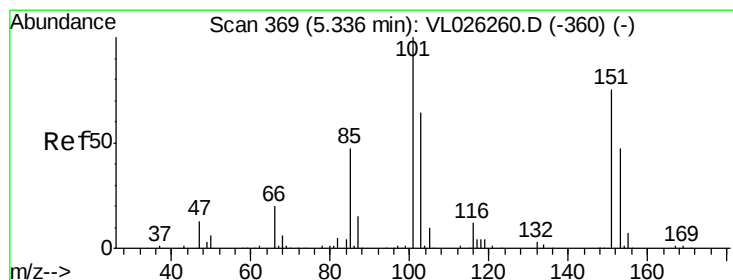
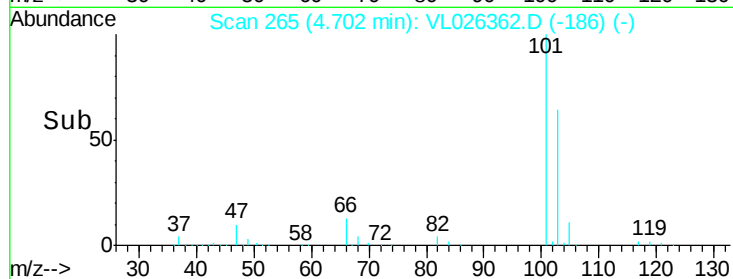
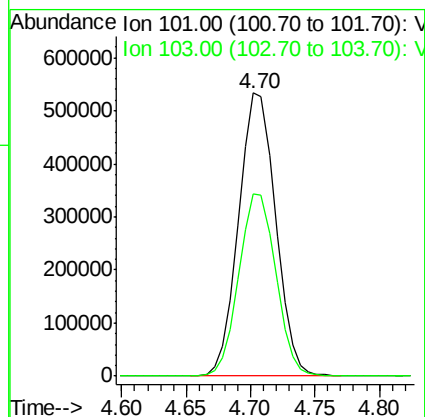
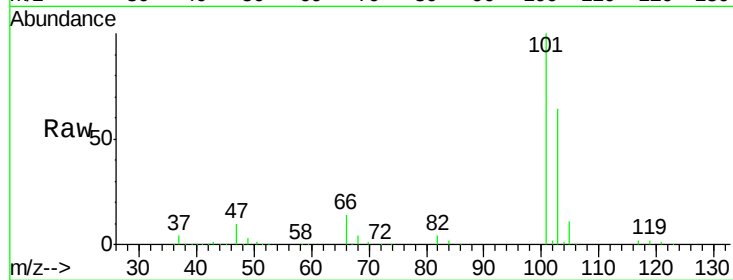
VL1111ABS01

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 10.31 ppbv

RT: 5.32 min Scan# 366

Delta R.T. -0.02 min

Lab File: VL026362.D

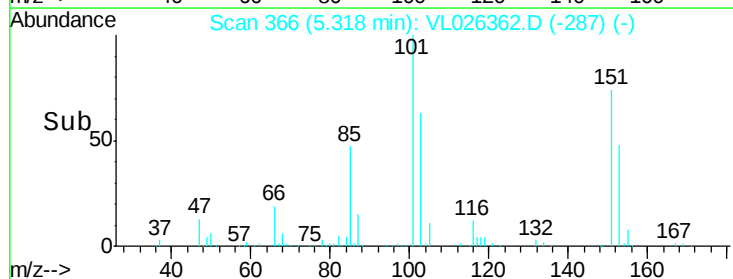
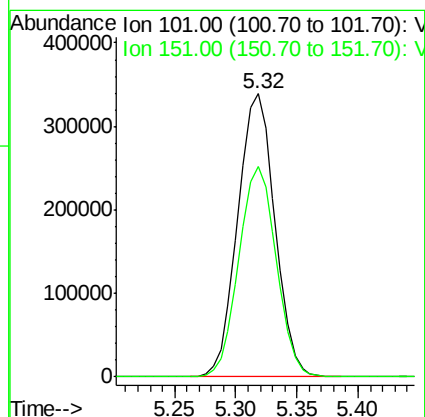
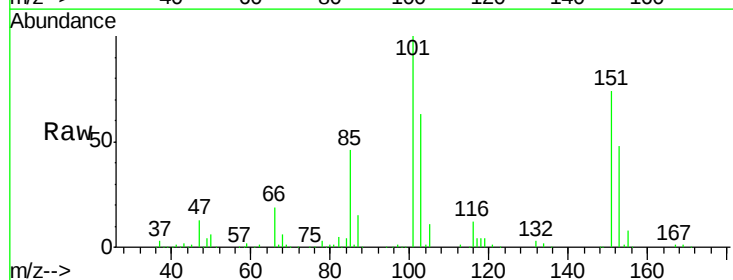
Acq: 11 Nov 2015 12:24

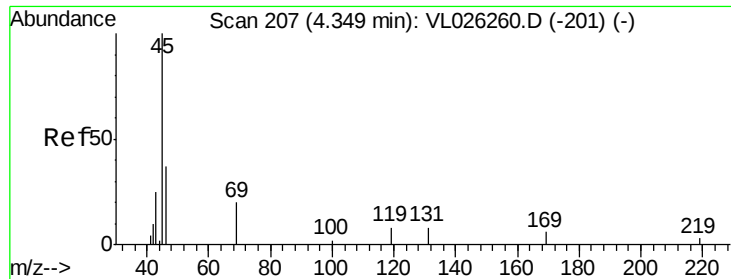
Tgt Ion:101 Resp: 717853

Ion Ratio Lower Upper

101 100

151 74.9 60.3 90.5





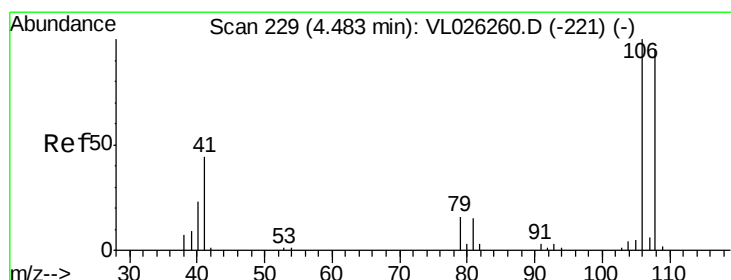
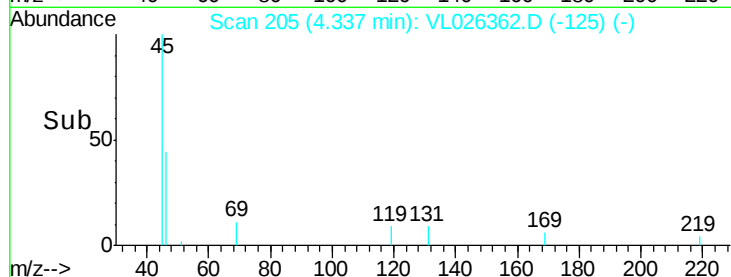
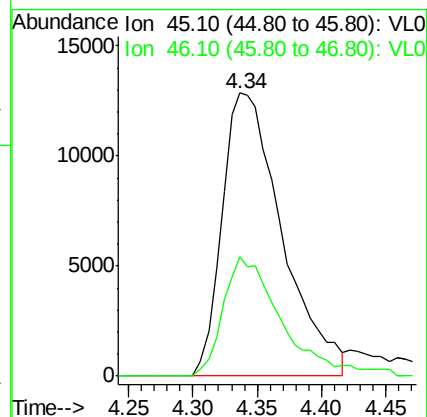
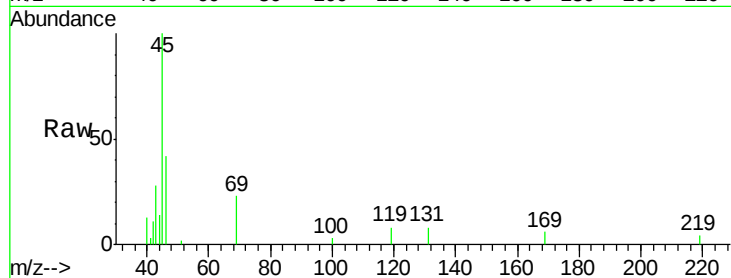
#13
Ethanol
Concen: 8.93 ppbv
RT: 4.34 min Scan# 205
Delta R.T. -0.01 min
Lab File: VL026362.D
Acq: 11 Nov 2015 12:24

Instrument :
MSVOA_L
ClientSampleId :
VL1111ABS01

Tot Ion: 45 Resp: 41690
Ion Ratio Lower Upper
45 100
46 41.2 17.0 68.0

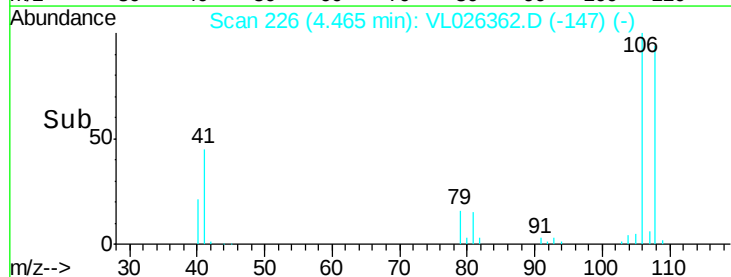
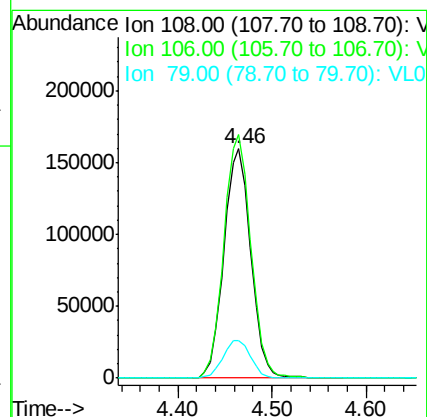
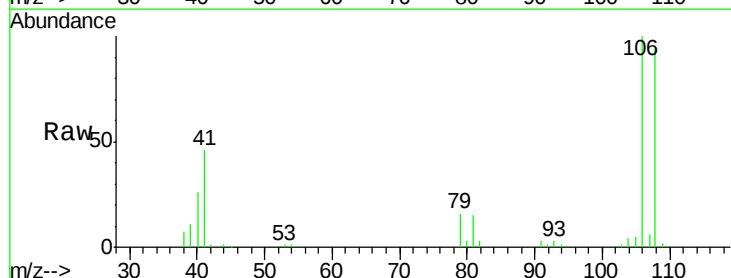
Manual Integrations
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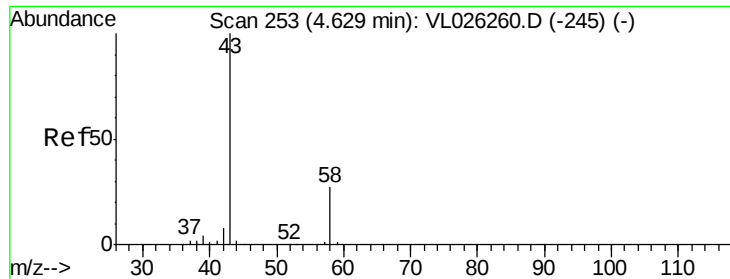
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#14
Bromoethene
Concen: 10.79 ppbv
RT: 4.46 min Scan# 226
Delta R.T. -0.02 min
Lab File: VL026362.D
Acq: 11 Nov 2015 12:24

Tgt Ion: 108 Resp: 316103
Ion Ratio Lower Upper
108 100
106 106.8 85.4 128.0
79 16.9 13.5 20.3





#15

Acetone

Concen: 9.74 ppbv

RT: 4.61 min Scan# 250

Delta R.T. -0.02 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

Instrument :

MSVOA_L

ClientSampleId :

VL1111ABS01

Tot Ion: 43 Resp: 663984

Ion Ratio Lower Upper

43 100

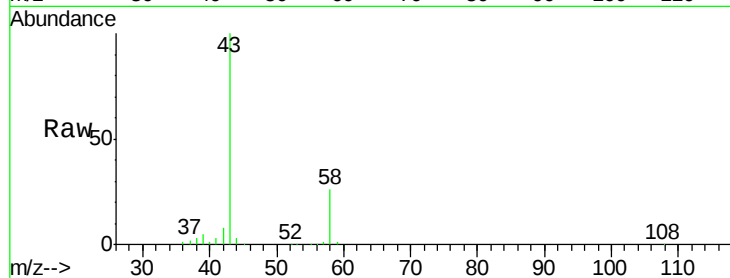
58 27.4 22.3 33.5

Manual Integrations

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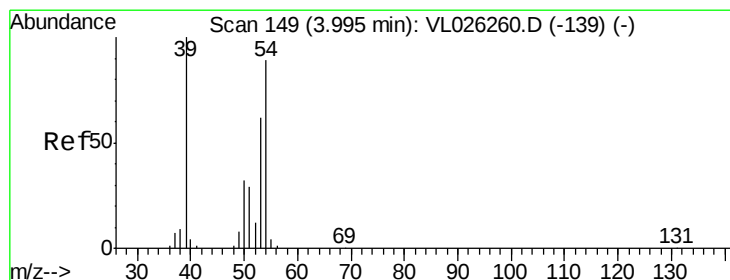
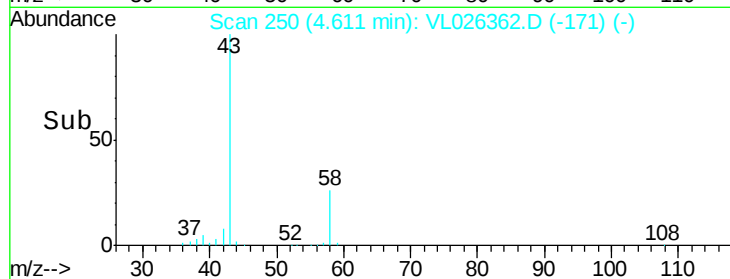
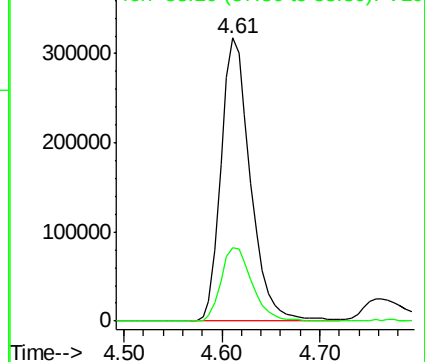
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 10.59 ppbv

RT: 3.98 min Scan# 146

Delta R.T. -0.02 min

Lab File: VL026362.D

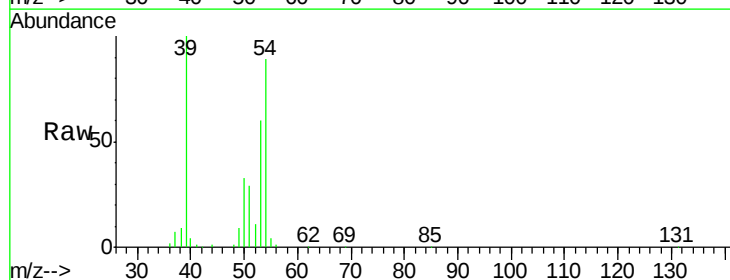
Acq: 11 Nov 2015 12:24

Tgt Ion: 39 Resp: 356020

Ion Ratio Lower Upper

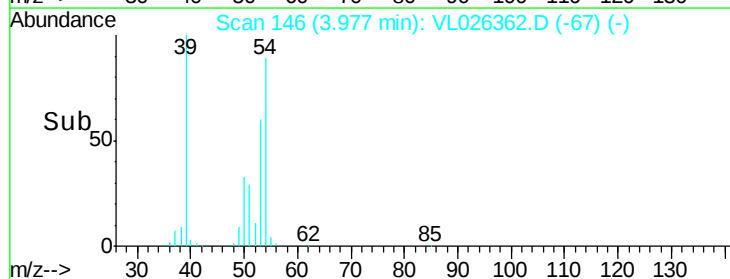
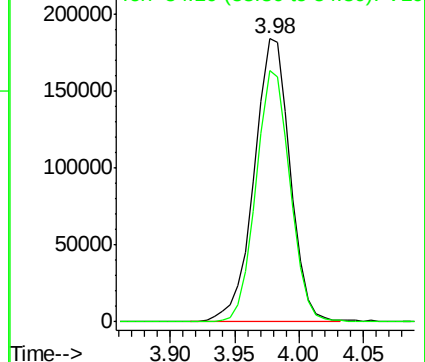
39 100

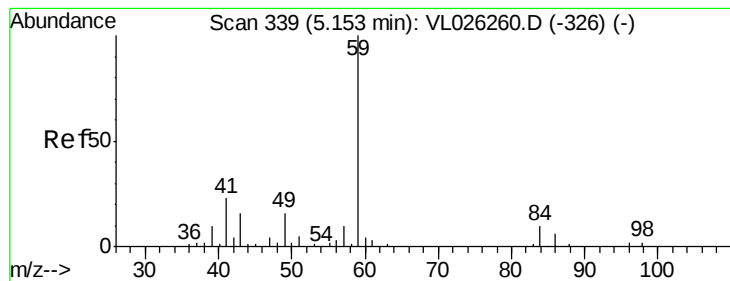
54 84.2 67.3 100.9



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

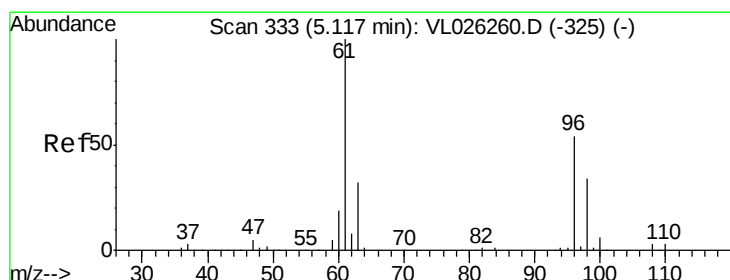
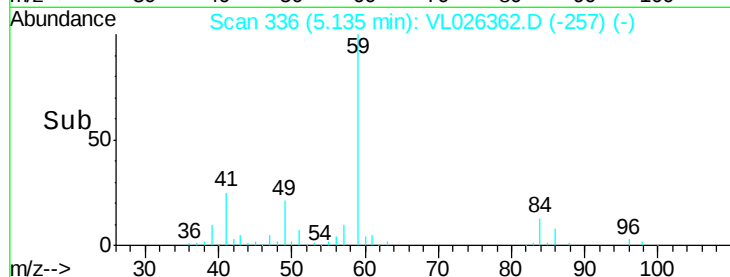
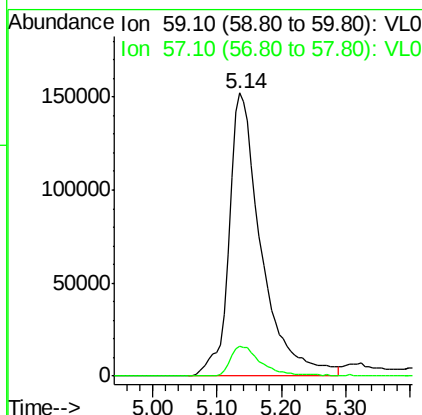
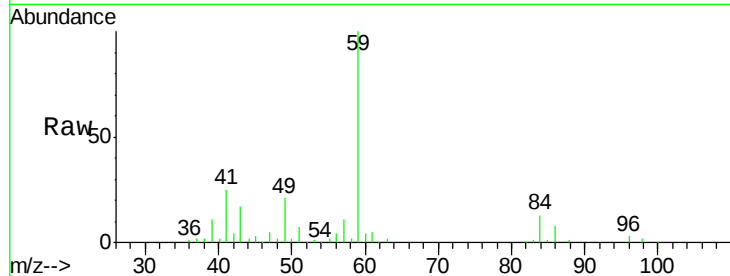
tert-Butyl alcohol
Concen: 10.88 ppbv
RT: 5.14 min Scan# 336
Delta R.T. -0.02 min
Lab File: VL026362.D
Acq: 11 Nov 2015 12:24

Instrument :
MSVOA_L
ClientSampleId :
VL1111ABS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.7	13.1

Manual Integrations
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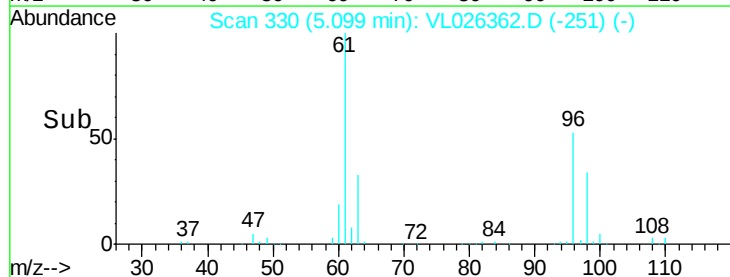
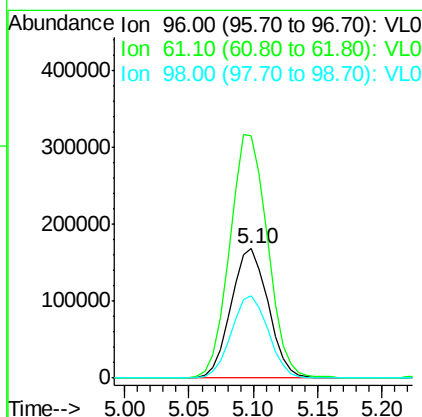
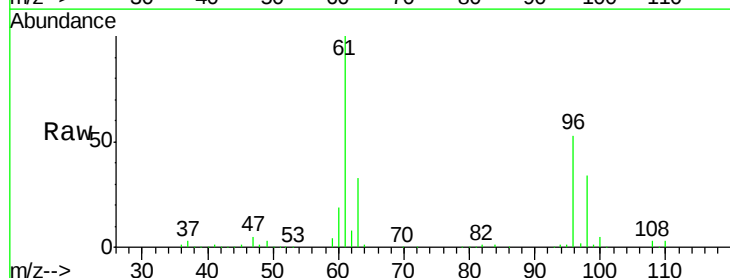
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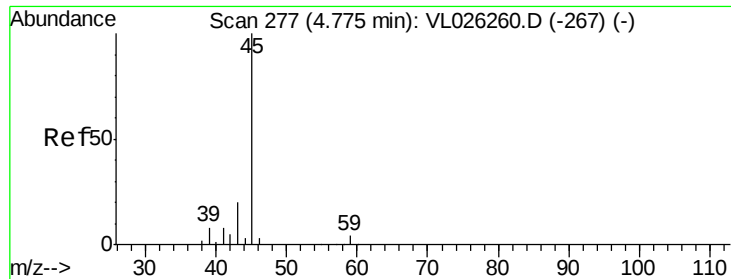


#18

1,1-Dichloroethene
Concen: 10.74 ppbv
RT: 5.10 min Scan# 330
Delta R.T. -0.02 min
Lab File: VL026362.D
Acq: 11 Nov 2015 12:24

Tgt Ion	Ratio	Lower	Upper
96	100		
61	187.1	147.0	220.4
98	63.9	50.1	75.1





#19

Isopropyl Alcohol

Concen: 10.53 ppbv

RT: 4.76 min Scan# 275

Delta R.T. -0.01 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

Instrument :

MSVOA_L

ClientSampleId :

VL1111ABS01

Tot Ion: 45 Resp: 307730

Ion Ratio Lower Upper

45 100

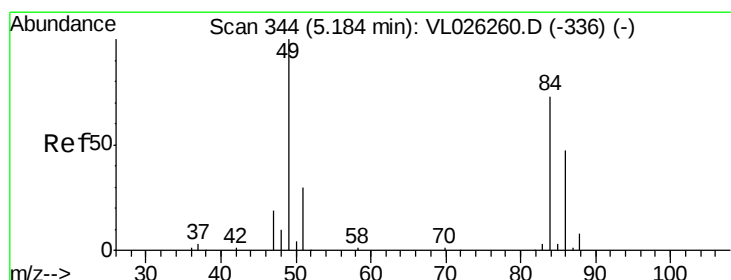
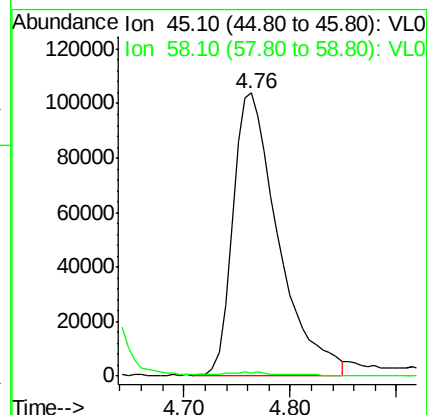
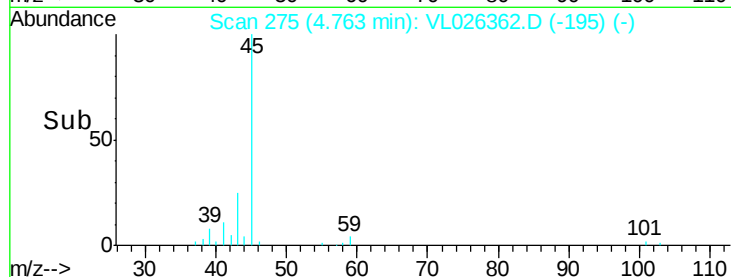
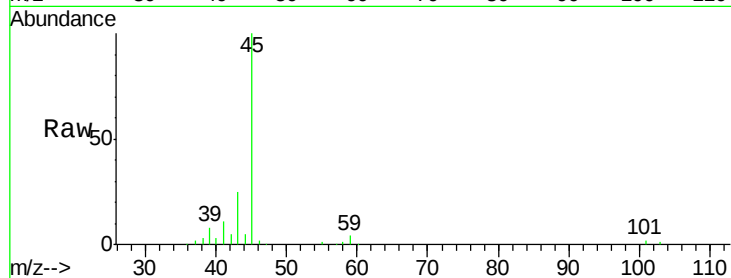
58 1.8 43.8 65.8#

Manual Integrations

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#20

Methylene Chloride

Concen: 10.75 ppbv

RT: 5.17 min Scan# 341

Delta R.T. -0.02 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

Tgt Ion: 84 Resp: 319004

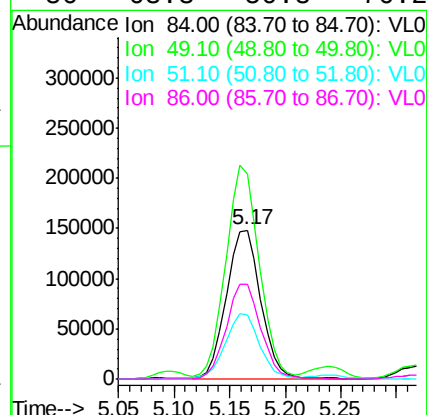
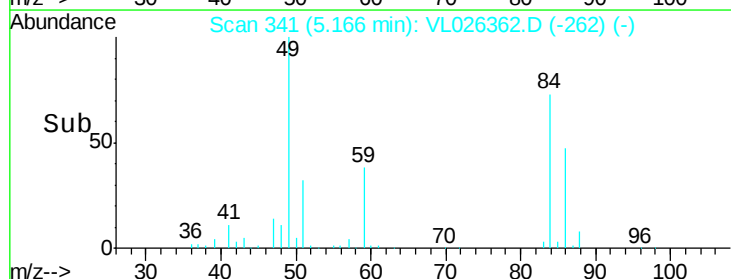
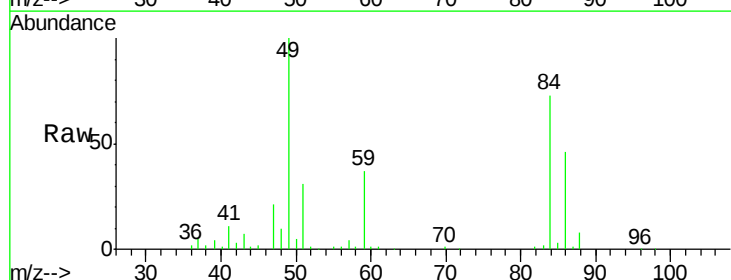
Ion Ratio Lower Upper

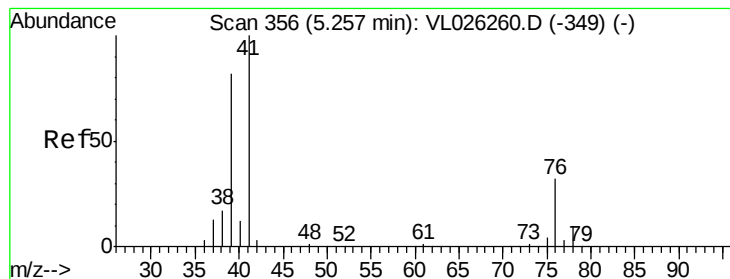
84 100

49 136.3 109.0 163.4

51 42.8 32.8 49.2

86 63.3 50.8 76.2





#21

Allvl Chloride

Concen: 11.00 ppbv

RT: 5.24 min Scan# 353

Delta R.T. -0.02 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

Instrument :

MSVOA_L

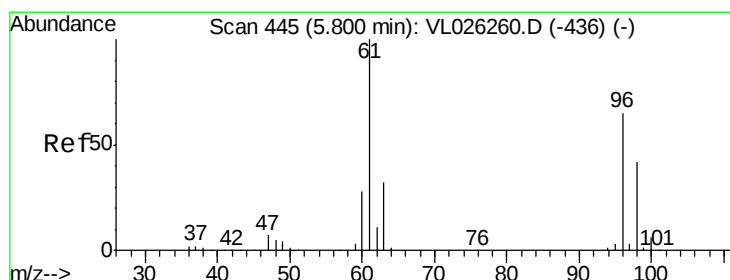
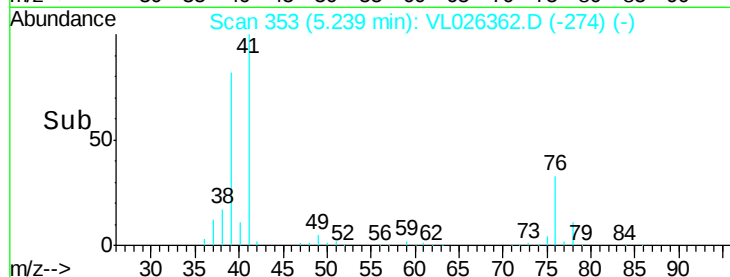
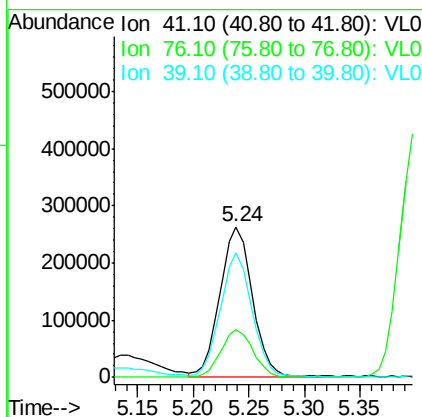
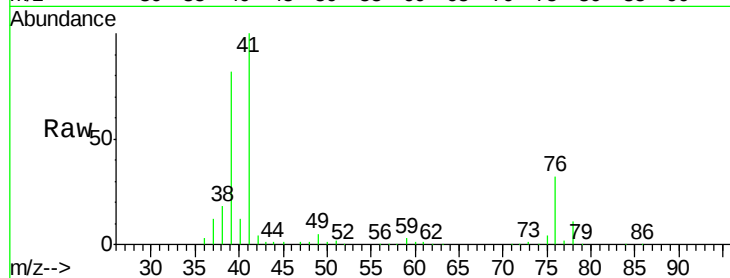
ClientSampleId :

VL1111ABS01

Tot Ion:	41	Resp:	528313
Ion	Ratio	Lower	Upper
41	100		
76	31.6	25.9	38.9
39	81.5	65.8	98.6

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 10.52 ppbv

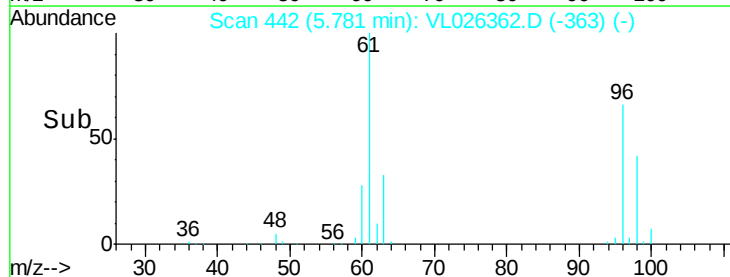
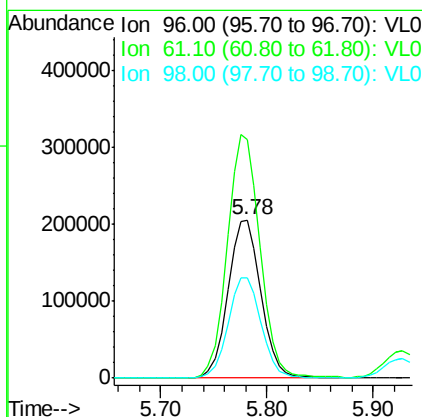
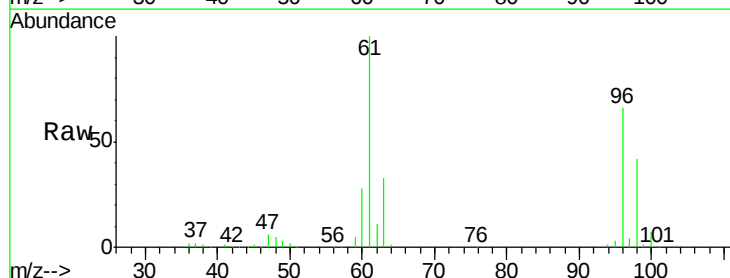
RT: 5.78 min Scan# 442

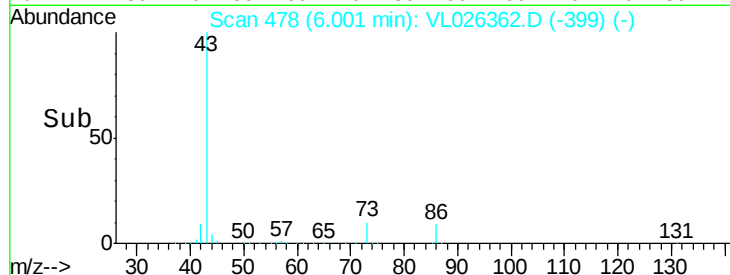
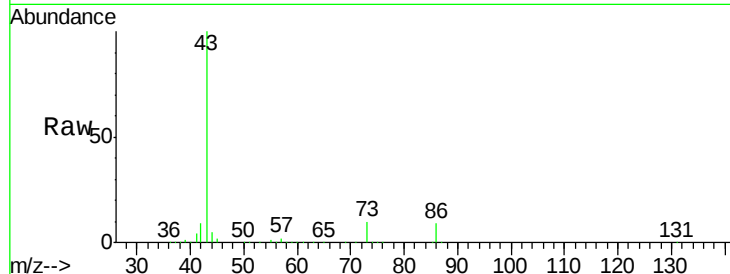
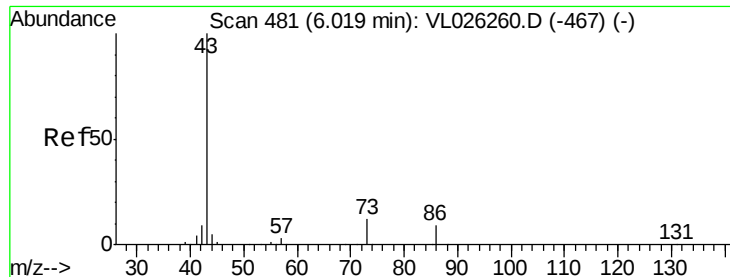
Delta R.T. -0.02 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

Tgt Ion:	96	Resp:	443906
Ion	Ratio	Lower	Upper
96	100		
61	151.0	123.2	184.8
98	63.4	51.4	77.0





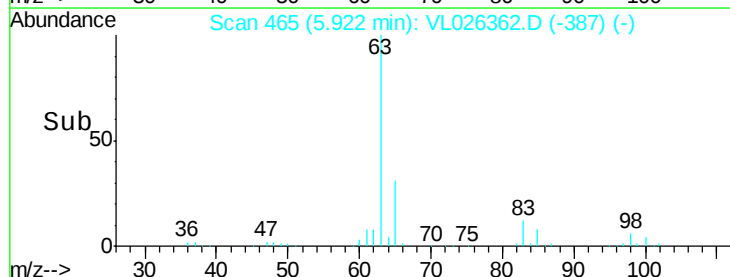
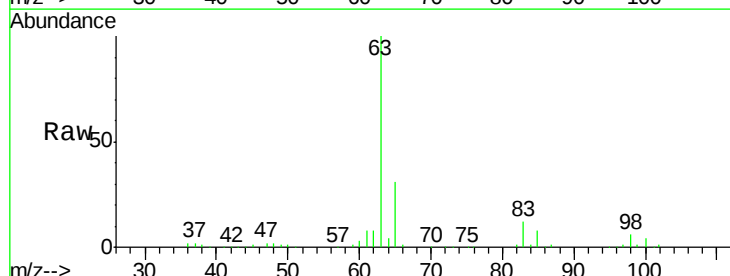
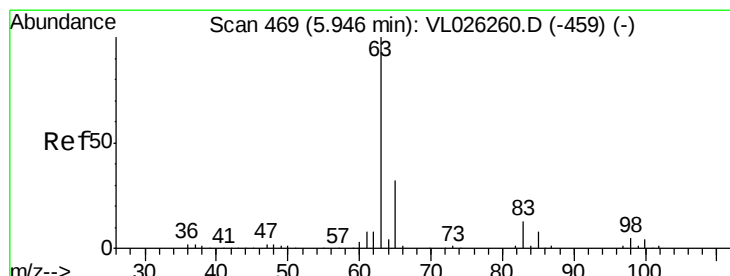
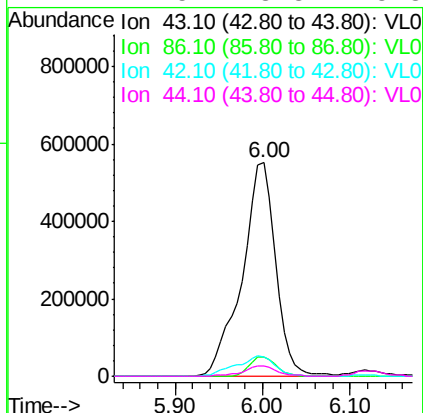
#23
 Vinyl Acetate
 Concen: 11.16 ppbv
 RT: 6.00 min Scan# 478
 Delta R.T. -0.02 min
 Lab File: VL026362.D
 Acq: 11 Nov 2015 12:24

Tot Ion	43	Resp	1465706
Ion	Ratio	Lower	Upper
43	100		
86	9.2	7.3	10.9
42	9.1	7.2	10.8
44	4.5	3.8	5.8

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1111ABS01

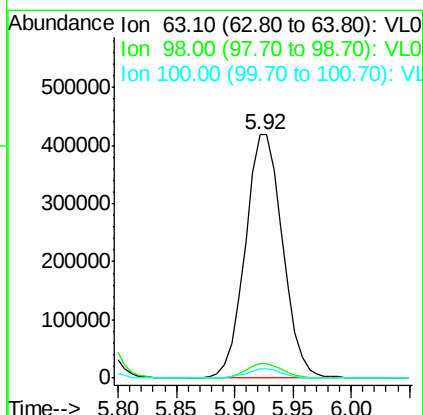
Manual Integrations
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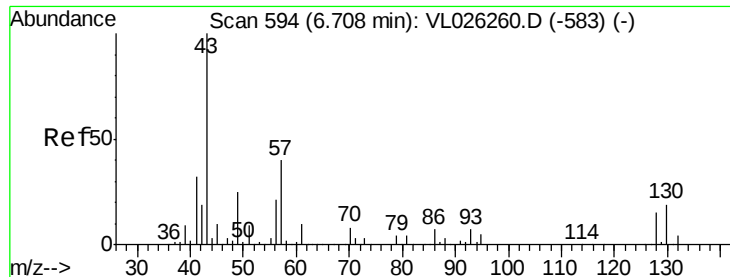
mohammad
 11/12/2015 6:51:49 PM



#24
 1,1-Dichloroethane
 Concen: 10.36 ppbv
 RT: 5.92 min Scan# 465
 Delta R.T. -0.02 min
 Lab File: VL026362.D
 Acq: 11 Nov 2015 12:24

Tgt Ion	63	Resp	934857
Ion	Ratio	Lower	Upper
63	100		
98	5.7	2.7	8.1
100	3.7	1.9	5.7





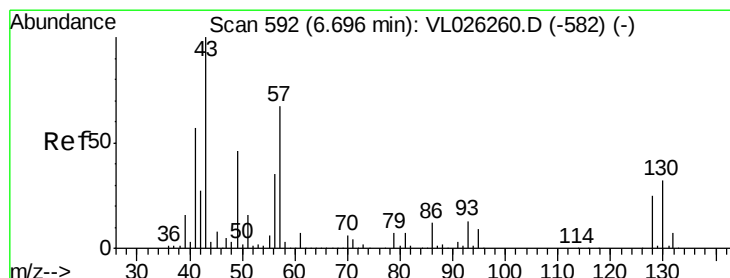
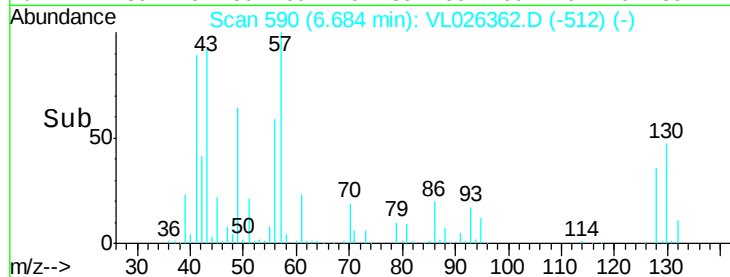
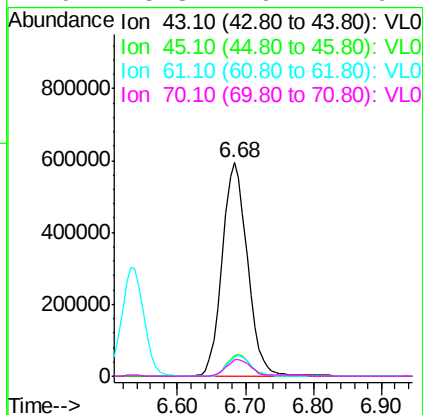
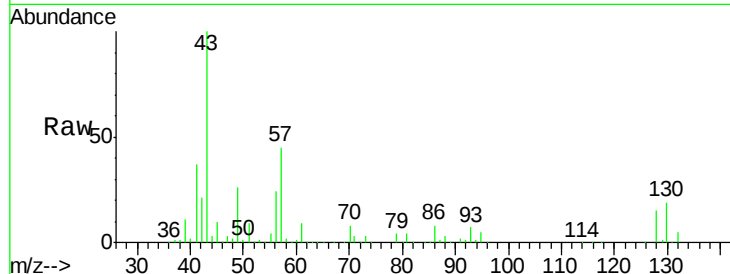
#25
Ethyl Acetate
Concen: 10.72 ppbv
RT: 6.68 min Scan# 590
Delta R.T. -0.02 min
Lab File: VL026362.D
Acq: 11 Nov 2015 12:24

Instrument :
MSVOA_L
ClientSampleId :
VL1111ABS01

Tot Ion:	43	Resp:	1522013
Ion	Ratio	Lower	Upper
43	100		
45	9.5	7.6	11.4
61	9.3	7.4	11.2
70	8.3	6.7	10.1

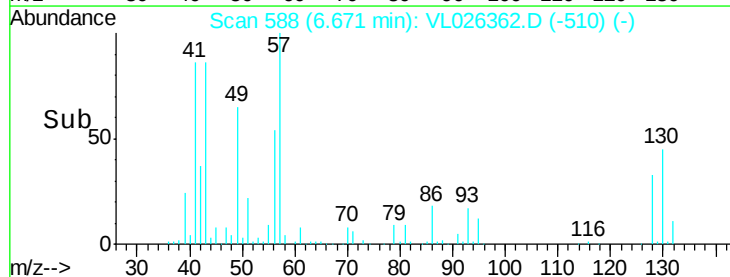
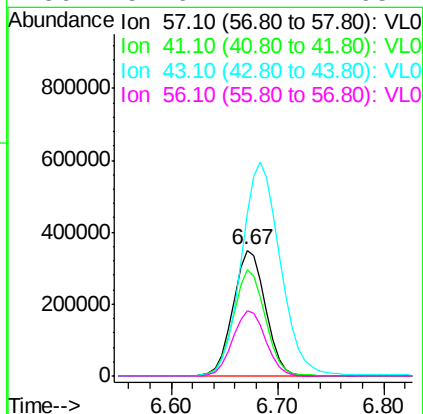
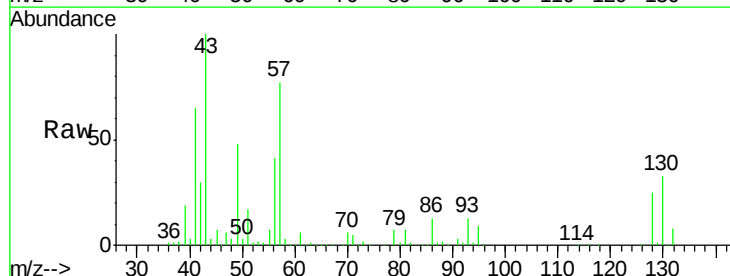
Manual Integrations
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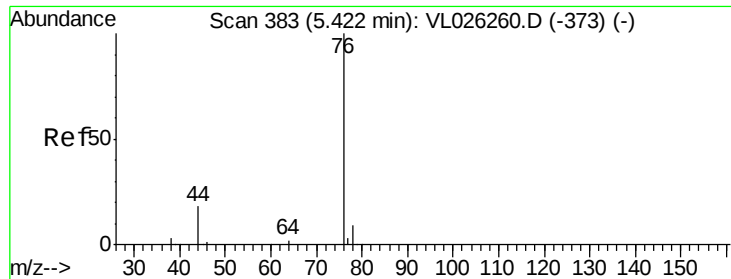
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#26
Hexane
Concen: 10.75 ppbv
RT: 6.67 min Scan# 588
Delta R.T. -0.02 min
Lab File: VL026362.D
Acq: 11 Nov 2015 12:24

Tgt Ion:	57	Resp:	747785
Ion	Ratio	Lower	Upper
57	100		
41	84.9	67.4	101.2
43	204.3	163.9	245.9
56	52.6	42.2	63.2





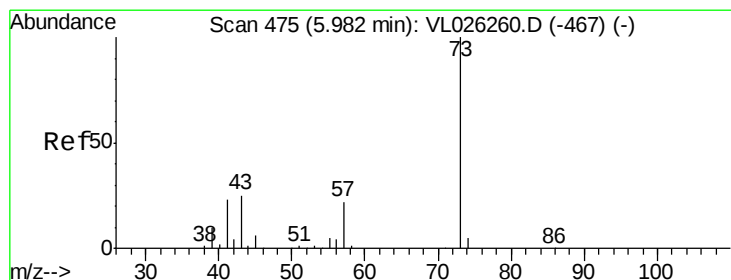
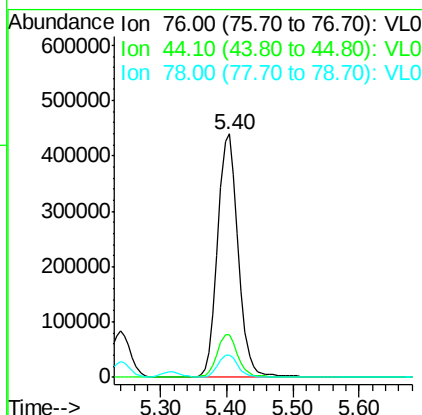
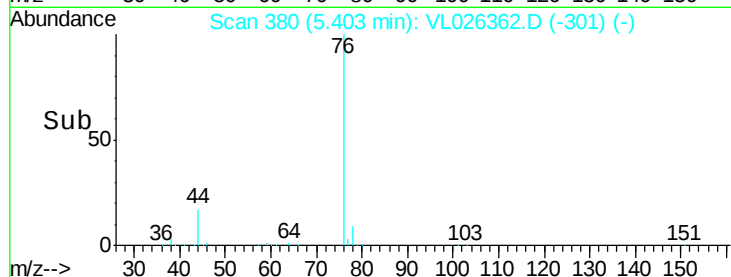
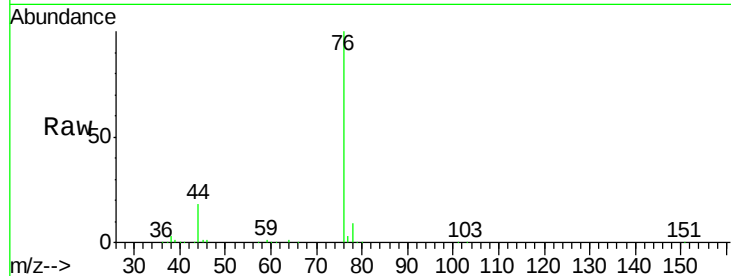
#27
Carbon Disulfide
Concen: 11.39 ppbv
RT: 5.40 min Scan# 380
Delta R.T. -0.02 min
Lab File: VL026362.D
Acq: 11 Nov 2015 12:24

Instrument :
MSVOA_L
ClientSampleId :
VL1111ABS01

Tot Ion	Ratio	Lower	Upper
76	100		
44	17.6	14.1	21.1
78	9.3	7.4	11.0

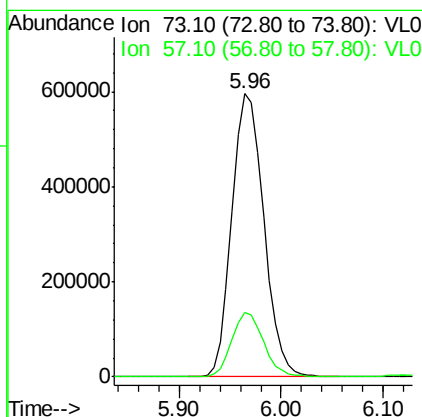
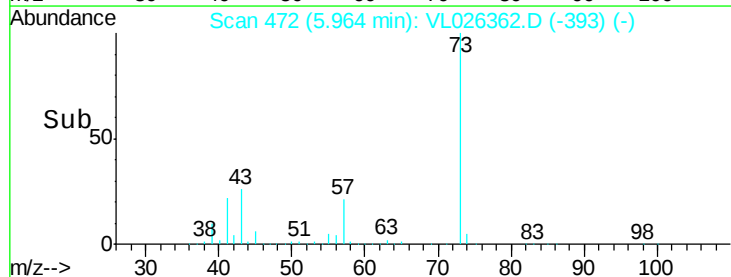
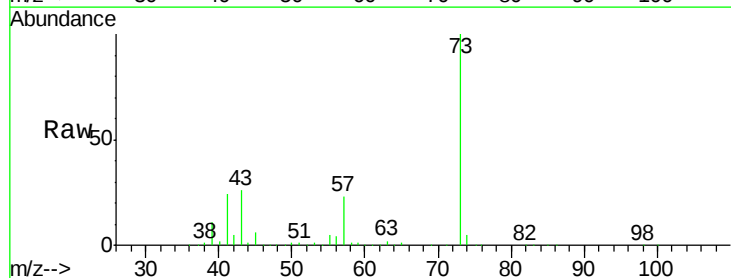
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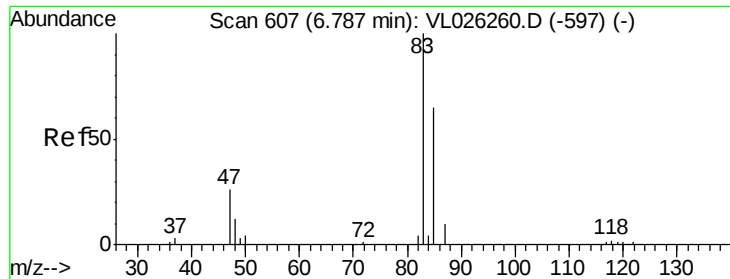
mohammad
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#28
Methyl tert-Butyl Ether
Concen: 10.67 ppbv
RT: 5.96 min Scan# 472
Delta R.T. -0.02 min
Lab File: VL026362.D
Acq: 11 Nov 2015 12:24

Tgt Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.8	26.6





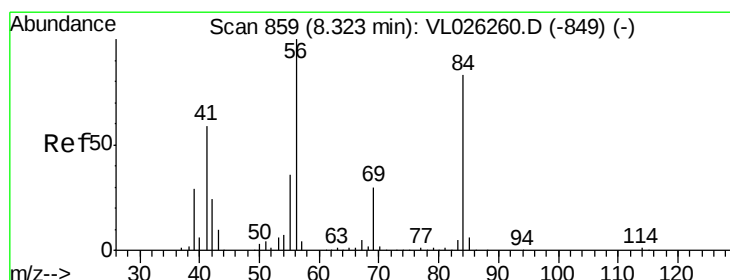
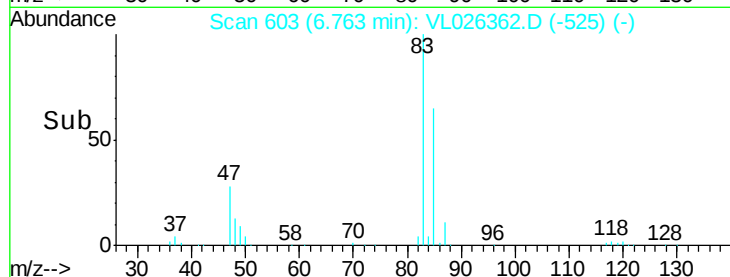
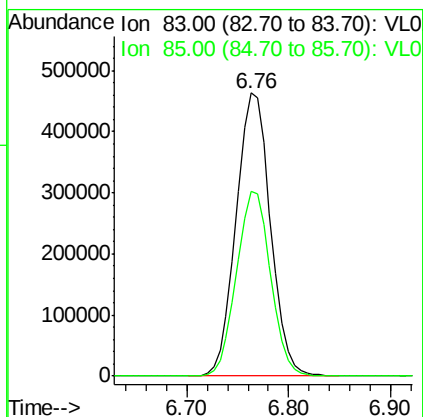
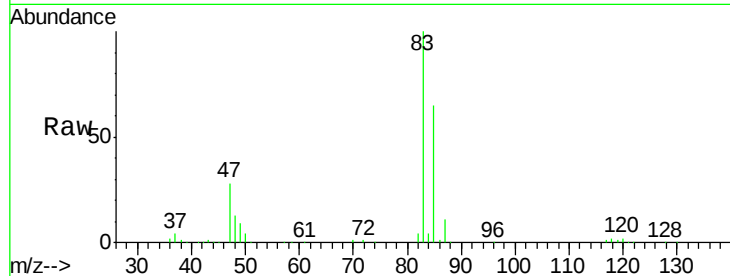
#29
Chloroform
Concen: 10.50 ppbv
RT: 6.76 min Scan# 603
Delta R.T. -0.02 min
Lab File: VL026362.D
Acq: 11 Nov 2015 12:24

Instrument :
MSVOA_L
ClientSampleId :
VL1111ABS01

Tot Ion: 83 Resp: 1081793
Ion Ratio Lower Upper
83 100
85 65.2 52.0 78.0

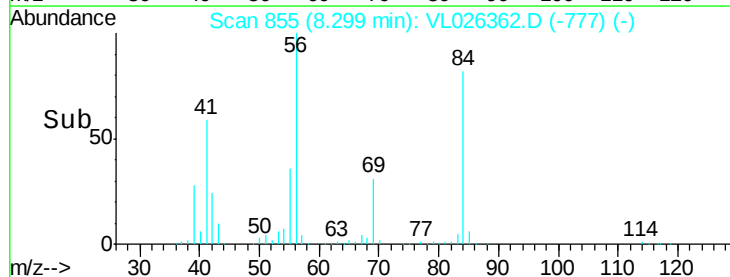
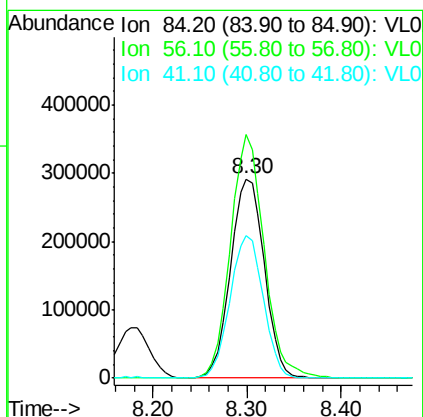
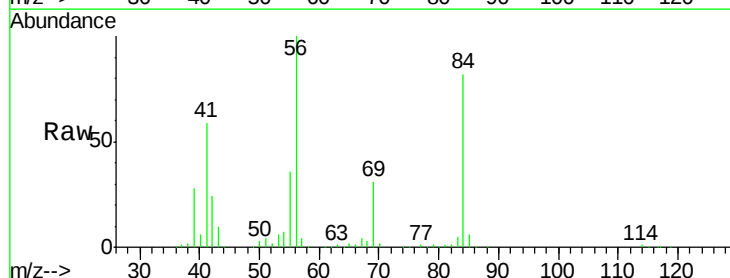
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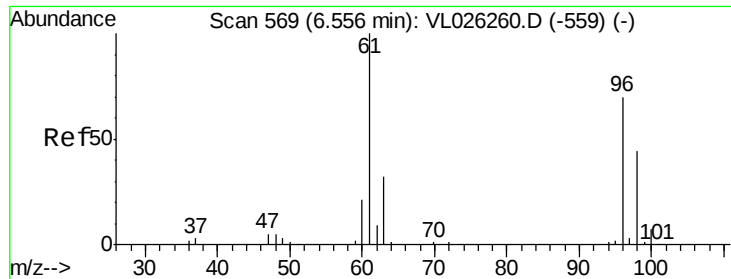
mohammad
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#30
Cyclohexane
Concen: 10.59 ppbv
RT: 8.30 min Scan# 855
Delta R.T. -0.02 min
Lab File: VL026362.D
Acq: 11 Nov 2015 12:24

Tgt Ion: 84 Resp: 723128
Ion Ratio Lower Upper
84 100
56 122.3 99.6 149.4
41 71.1 56.7 85.1





#31

cis-1,2-Dichloroethene

Concen: 10.86 ppbv

RT: 6.53 min Scan# 565

Delta R.T. -0.02 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

Tot Ion:	61	Resp:	695363
Ion Ratio	Lower	Upper	
61	100		
96	70.3	56.2	84.4
98	45.1	35.4	53.2

Instrument :

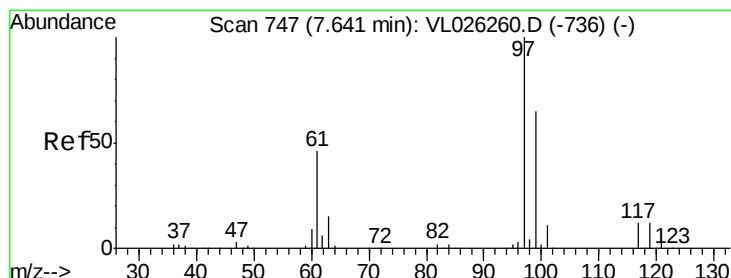
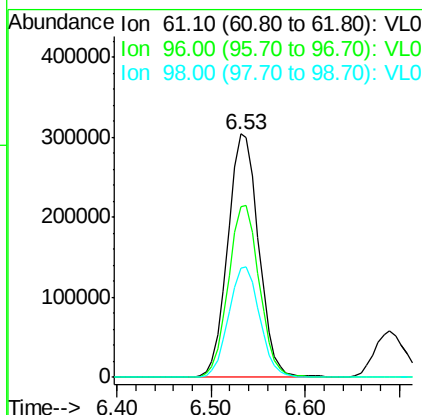
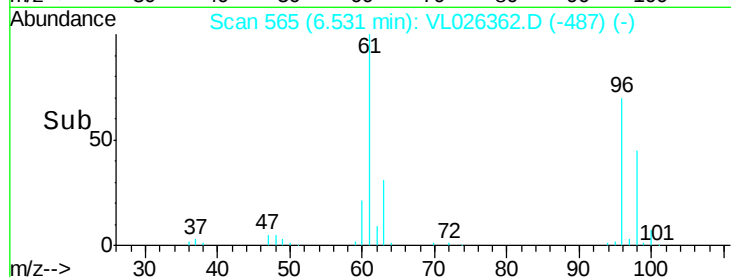
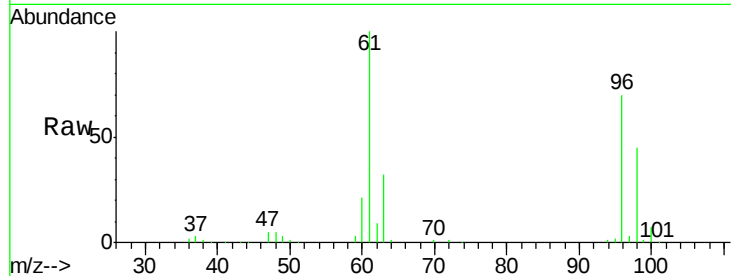
MSVOA_L

ClientSampleId :

VL1111ABS01

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#32

1,1,1-Trichloroethane

Concen: 9.51 ppbv

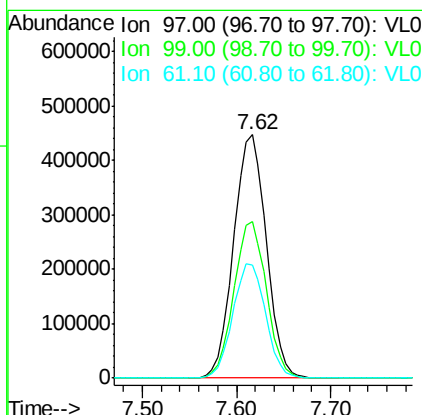
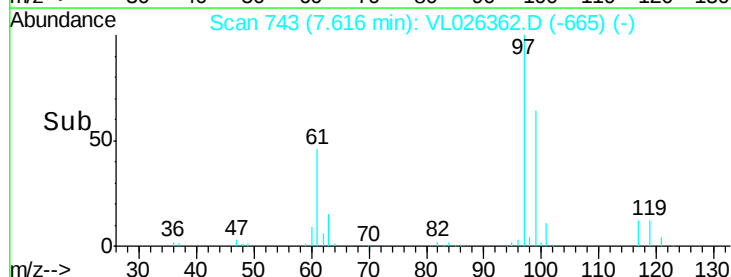
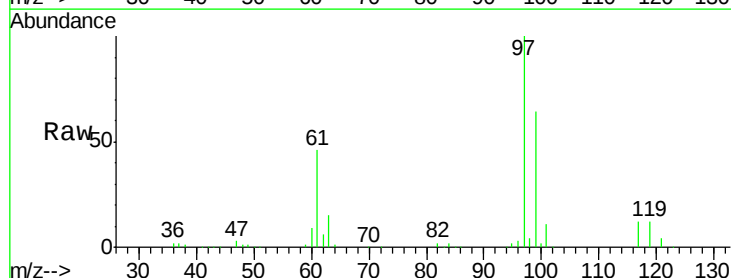
RT: 7.62 min Scan# 743

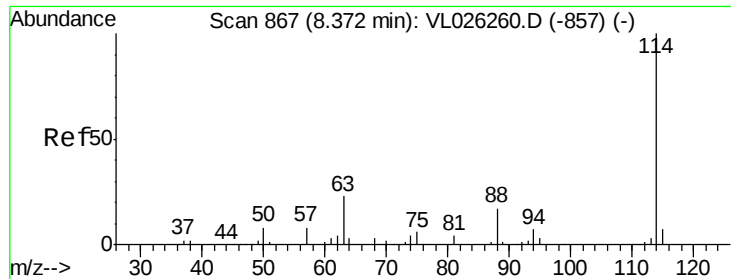
Delta R.T. -0.02 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

Tgt Ion:	97	Resp:	1083108
Ion Ratio	Lower	Upper	
97	100		
99	64.1	51.0	76.6
61	47.3	37.1	55.7





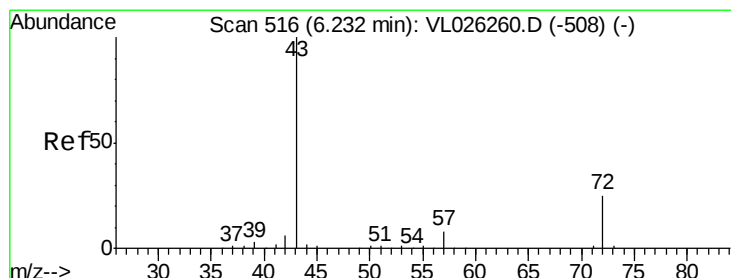
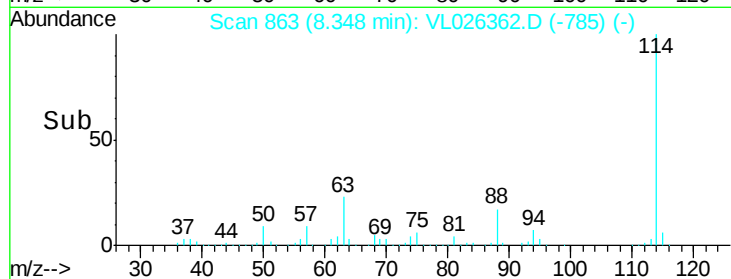
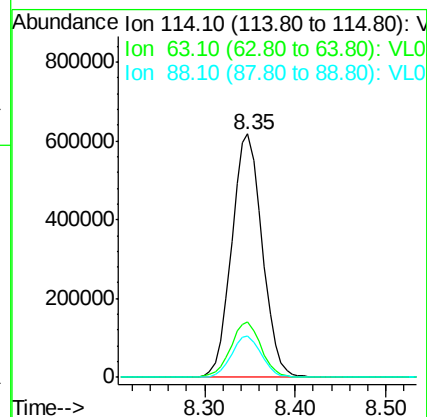
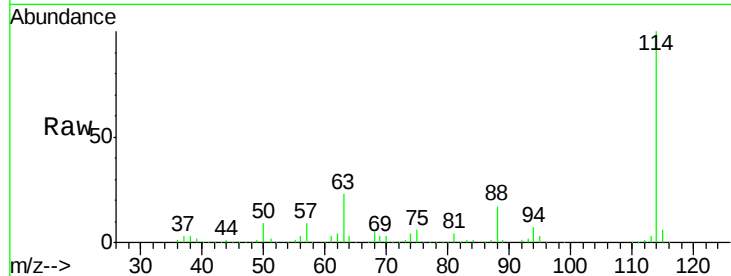
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.35 min Scan# 863
 Delta R.T. -0.02 min
 Lab File: VL026362.D
 Acq: 11 Nov 2015 12:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1111ABS01

Tot Ion:114 Resp: 1453483
 Ion Ratio Lower Upper
 114 100
 63 23.0 18.6 28.0
 88 16.8 13.4 20.2

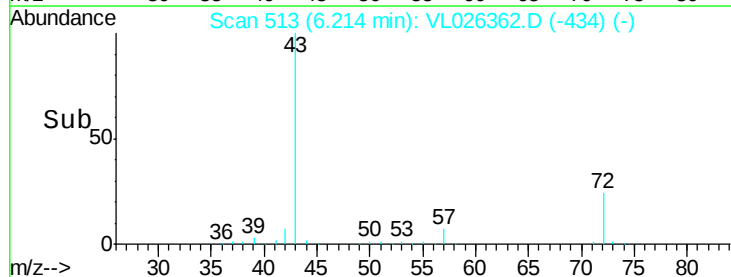
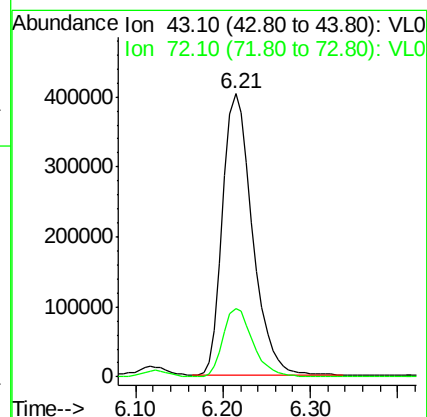
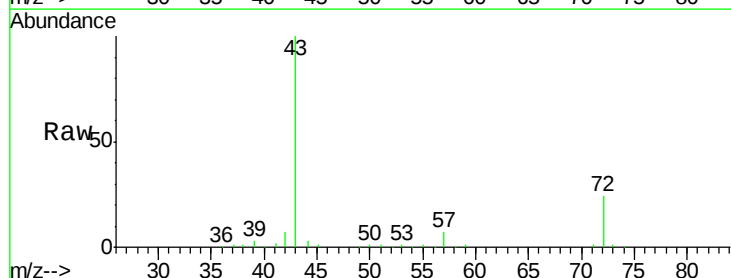
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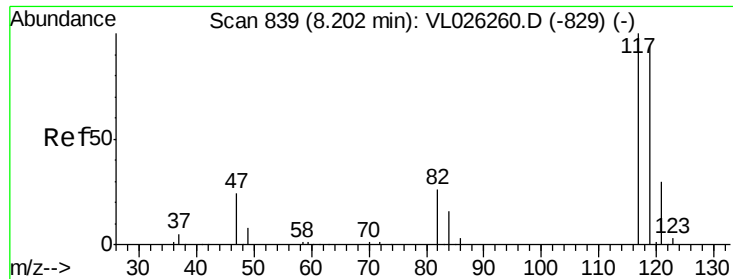
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#34
 2-Butanone
 Concen: 10.85 ppbv
 RT: 6.21 min Scan# 513
 Delta R.T. -0.02 min
 Lab File: VL026362.D
 Acq: 11 Nov 2015 12:24

Tgt Ion: 43 Resp: 952230
 Ion Ratio Lower Upper
 43 100
 72 24.6 19.9 29.9





#35

Carbon Tetrachloride

Concen: 10.16 ppbv

RT: 8.18 min Scan# 835

Delta R.T. -0.02 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

Instrument :

MSVOA_L

ClientSampleId :

VL1111ABS01

Tot Ion:117 Resp: 1113095

Ion Ratio Lower Upper

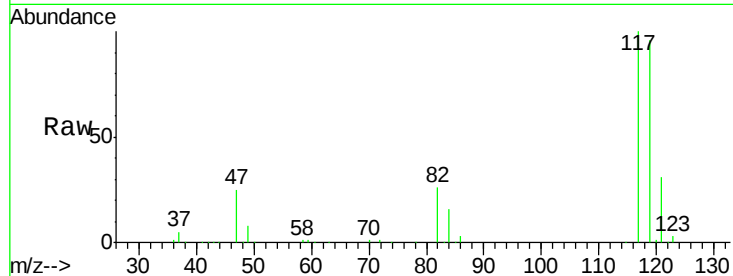
117 100

119 95.6 75.2 112.8

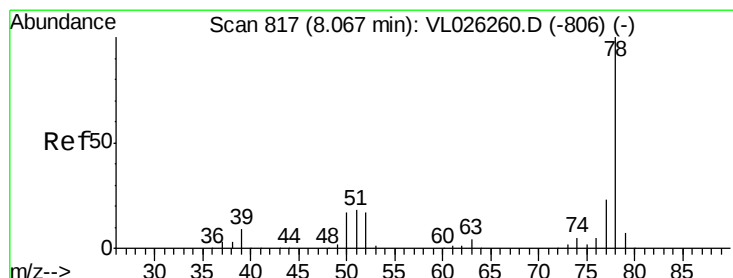
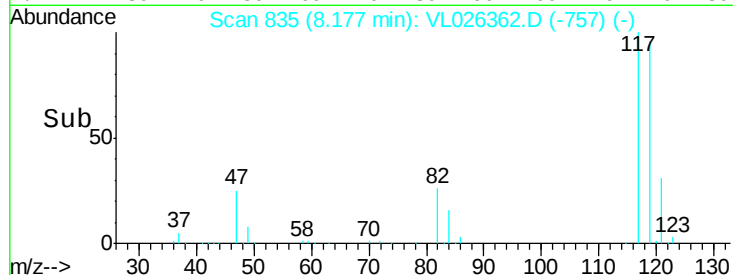
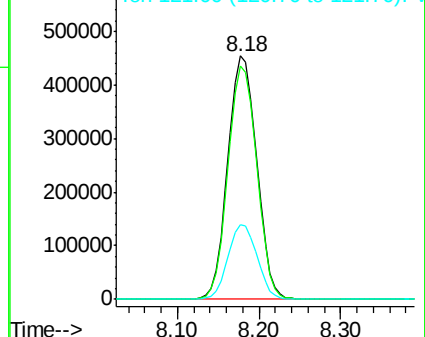
121 30.5 24.2 36.2

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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: 10.70 ppbv

RT: 8.04 min Scan# 813

Delta R.T. -0.02 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

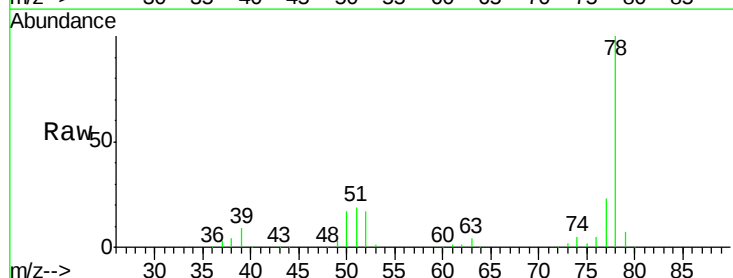
Tgt Ion: 78 Resp: 1646697

Ion Ratio Lower Upper

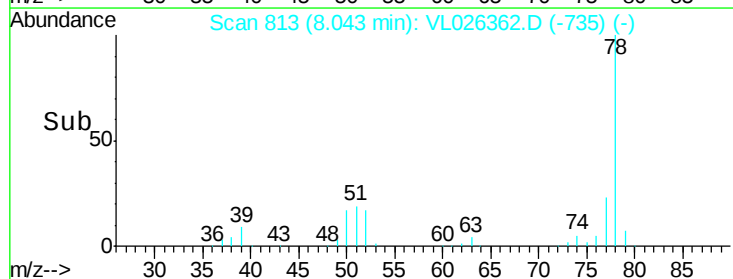
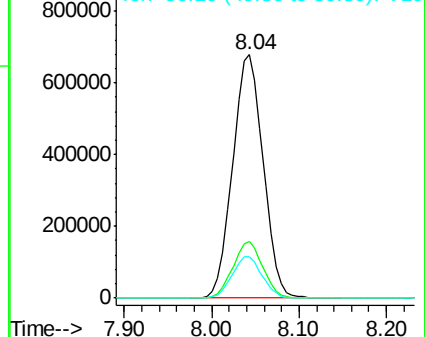
78 100

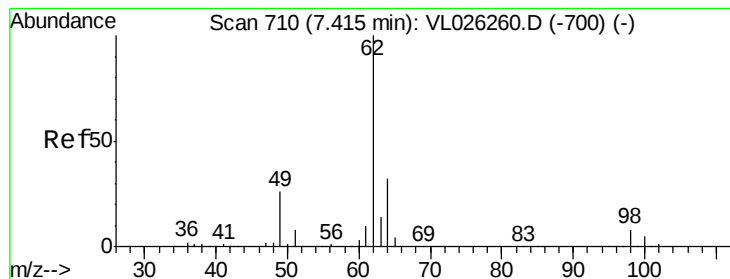
77 23.3 18.0 27.0

50 17.2 13.3 19.9



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: 10.76 ppbv

RT: 7.39 min Scan# 706

Delta R.T. -0.02 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

Tot Ion: 62 Resp: 853596

Ion Ratio Lower Upper

62 100

98 7.9 6.3 9.5

Instrument :

MSVOA_L

ClientSampleId :

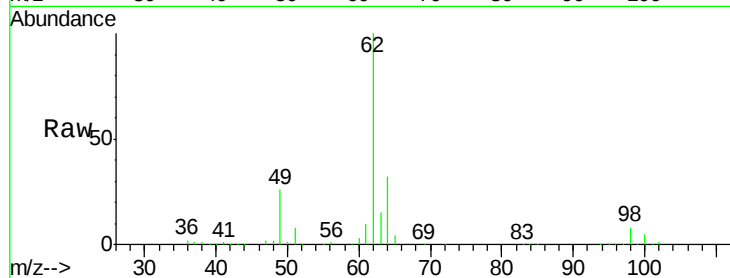
VL1111ABS01

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

7.39

400000

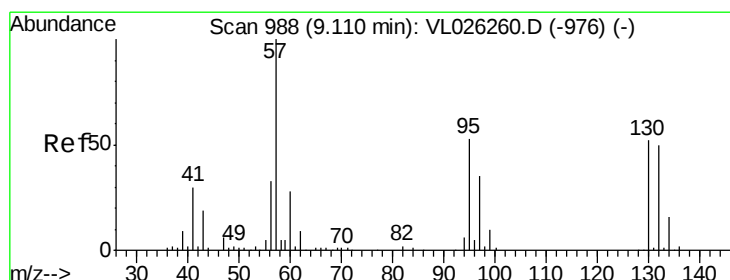
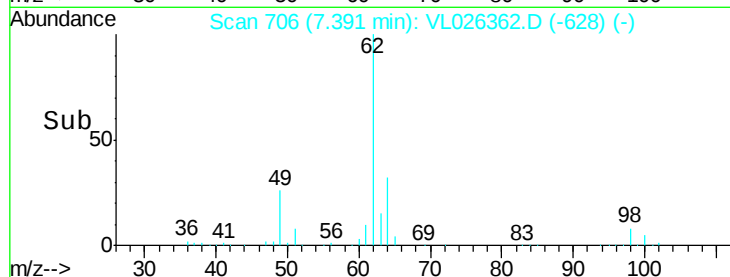
300000

200000

100000

0

Time-->



#38

Trichloroethene

Concen: 8.98 ppbv

RT: 9.09 min Scan# 984

Delta R.T. -0.02 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

Tgt Ion:130 Resp: 663484

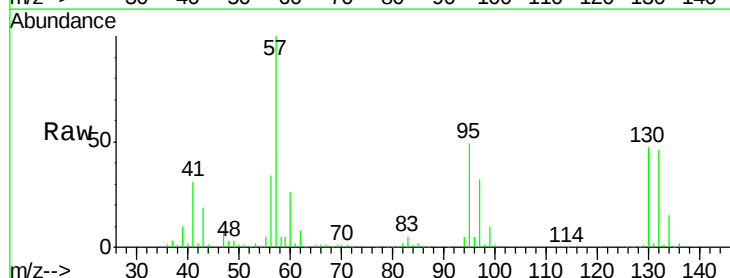
Ion Ratio Lower Upper

130 100

95 103.4 80.8 121.2

132 97.8 76.2 114.2

97 67.1 53.0 79.6



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

400000

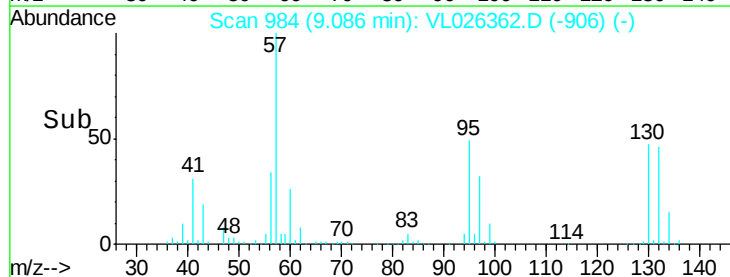
300000

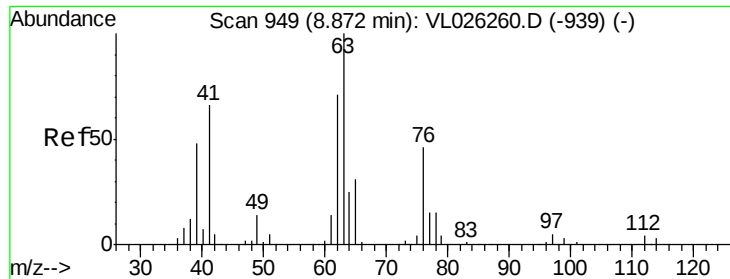
200000

100000

0

Time-->





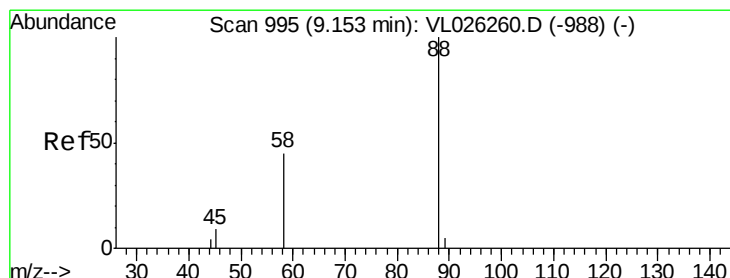
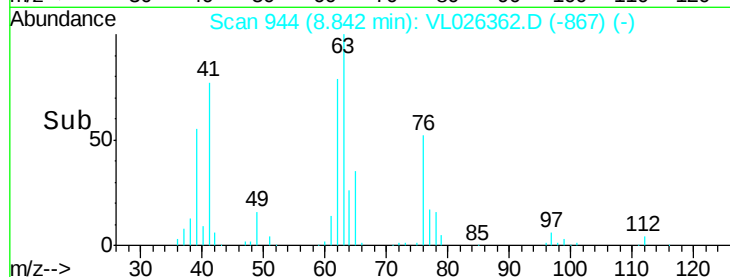
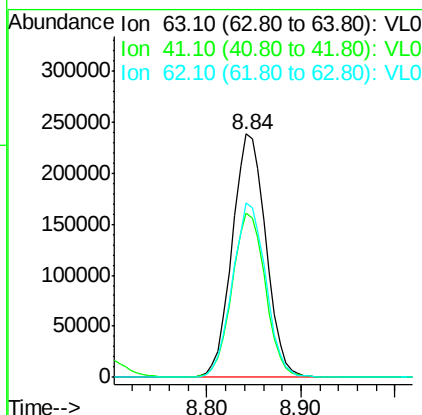
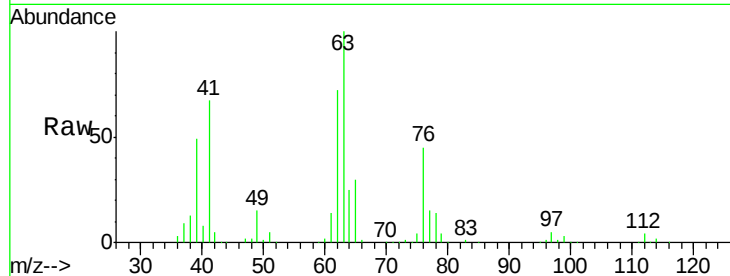
#39
 1,2-Dichloropropane
 Concen: 10.64 ppbv
 RT: 8.84 min Scan# 944
 Delta R.T. -0.03 min
 Lab File: VL026362.D
 Acq: 11 Nov 2015 12:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1111ABS01

Tot Ion	Ratio	Resp	Lower	Upper
63	100	595998		
41	67.2		53.2	79.8
62	71.6		57.1	85.7

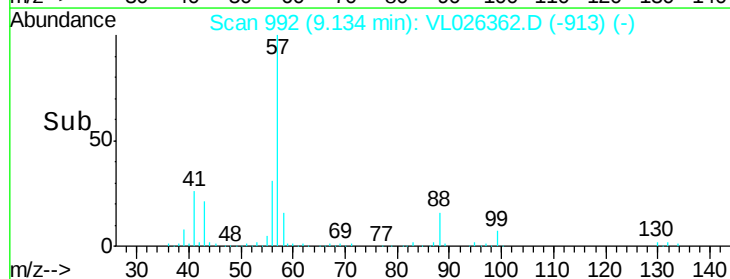
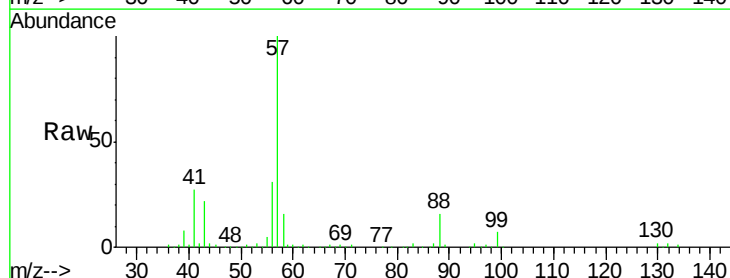
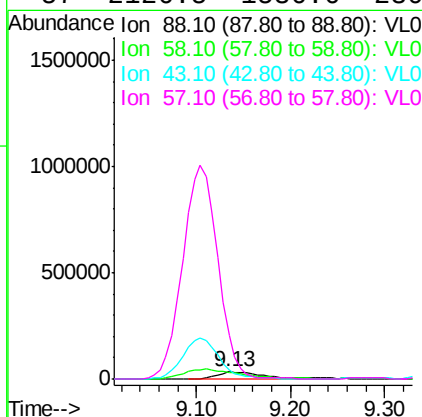
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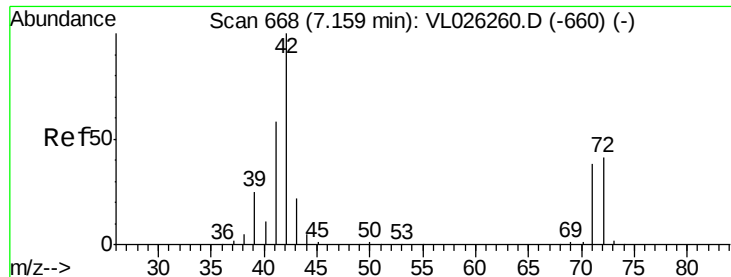
mohammad
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#40
 1,4-Dioxane
 Concen: 12.88 ppbv
 RT: 9.13 min Scan# 992
 Delta R.T. -0.02 min
 Lab File: VL026362.D
 Acq: 11 Nov 2015 12:24

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	123360		
58	165.3		126.2	189.2
43	425.3		307.3	460.9
57	2126.5		1536.6	2304.8





#41

Tetrahydrofuran

Concen: 11.43 ppbv

RT: 7.13 min Scan# 664

Delta R.T. -0.02 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

Instrument :

MSVOA_L

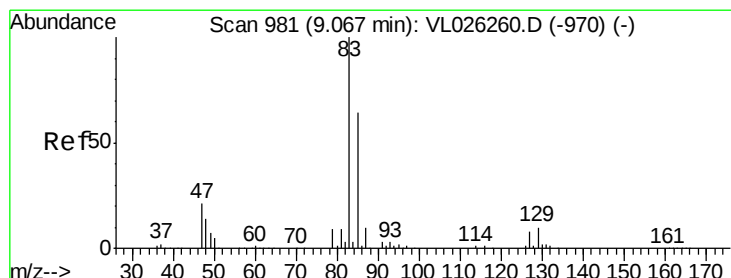
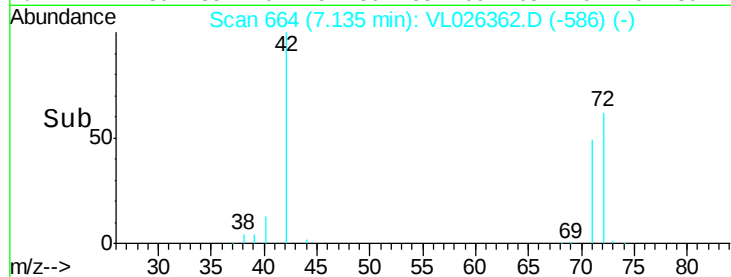
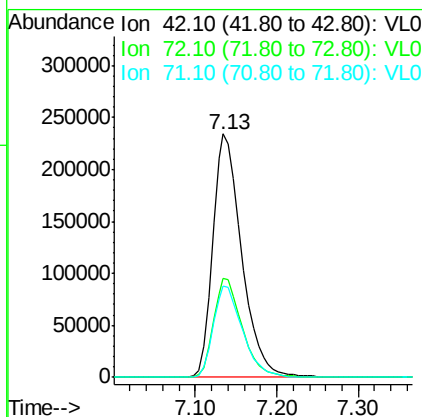
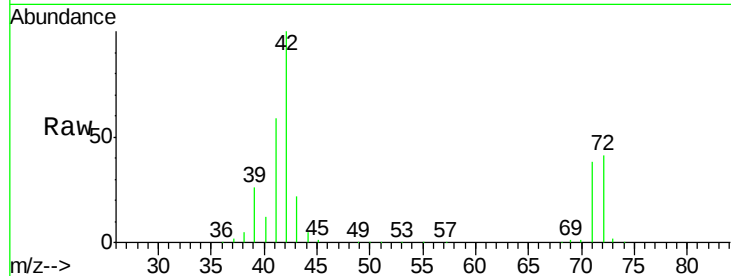
ClientSampleId :

VL1111ABS01

Tot Ion:	42	Resp:	579736
Ion	Ratio	Lower	Upper
42	100		
72	40.4	32.2	48.4
71	38.0	30.4	45.6

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#42

Bromodichloromethane

Concen: 11.13 ppbv

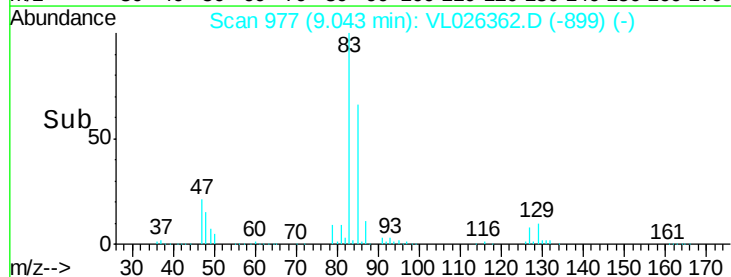
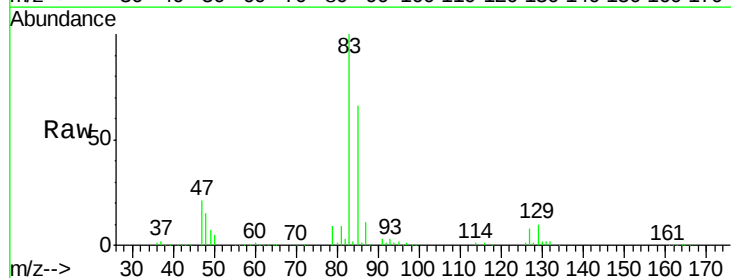
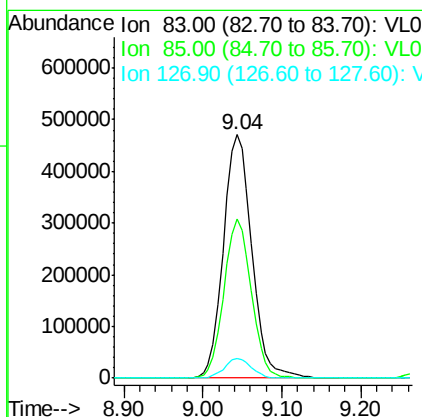
RT: 9.04 min Scan# 977

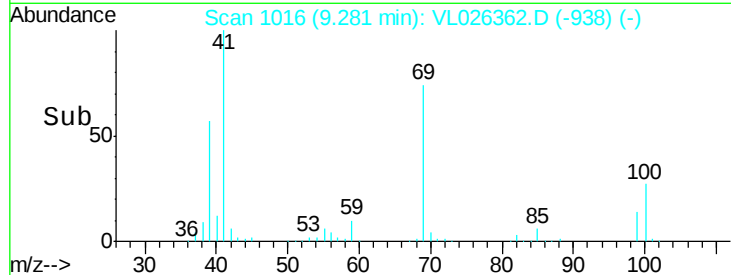
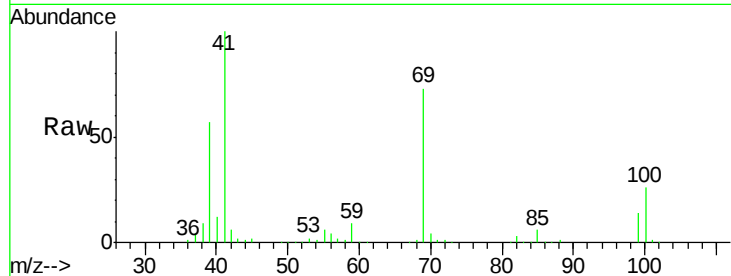
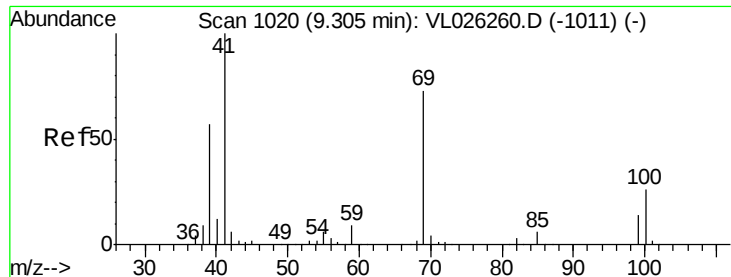
Delta R.T. -0.02 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

Tgt Ion:	83	Resp:	1182679
Ion	Ratio	Lower	Upper
83	100		
85	65.5	51.2	76.8
127	8.2	6.2	9.4





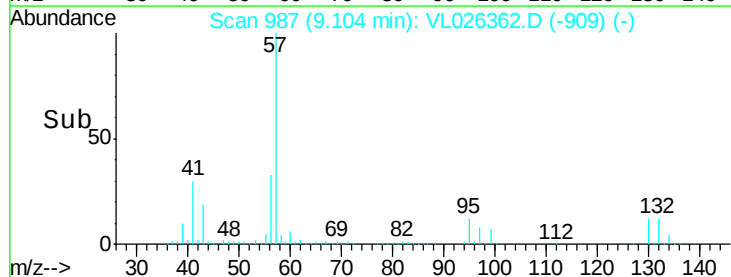
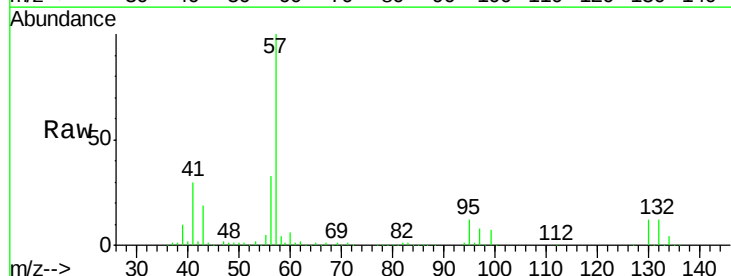
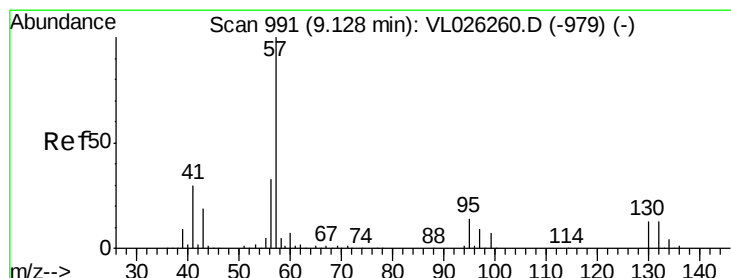
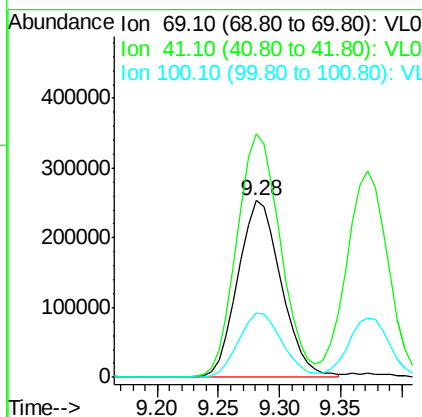
#43
Methvl Methacrvlate
Concen: 11.43 ppbv
RT: 9.28 min Scan# 1016
Delta R.T. -0.02 min
Lab File: VL026362.D
Acq: 11 Nov 2015 12:24

Tot Ion	Ratio	Lower	Upper
69	100		
41	138.1	110.0	165.0
100	36.6	28.6	43.0

Instrument :
MSVOA_L
ClientSampleId :
VL1111ABS01

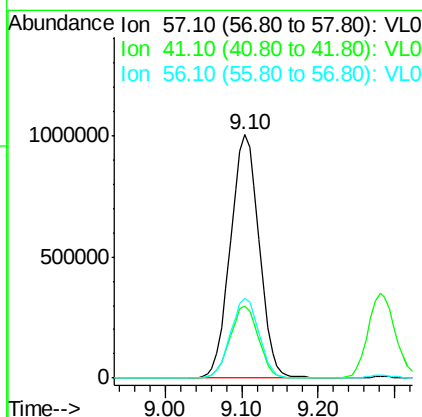
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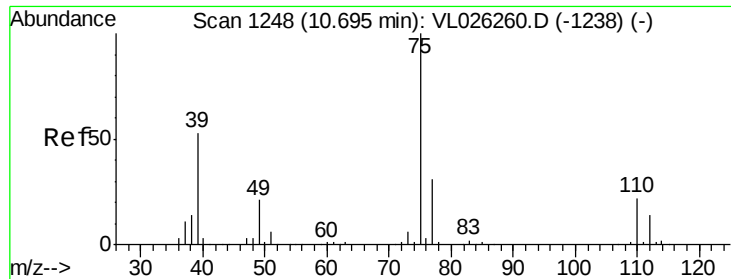
mohammad
11/12/2015 6:51:49 PM



#44
2,2,4-Trimethylpentane
Concen: 10.44 ppbv
RT: 9.10 min Scan# 987
Delta R.T. -0.02 min
Lab File: VL026362.D
Acq: 11 Nov 2015 12:24

Tgt Ion	Ratio	Lower	Upper
57	100		
41	29.1	23.1	34.7
56	32.4	26.3	39.5





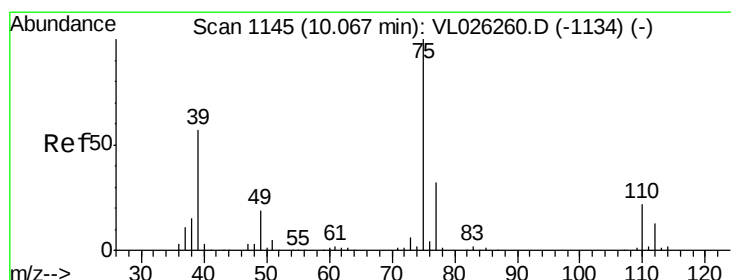
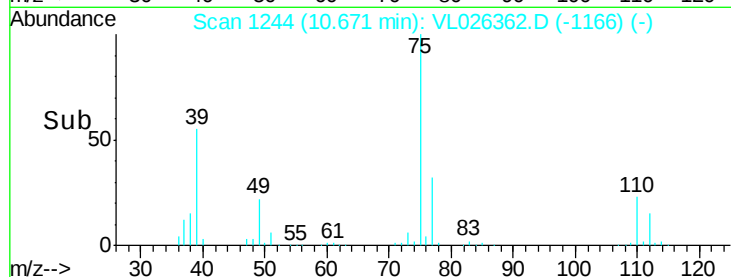
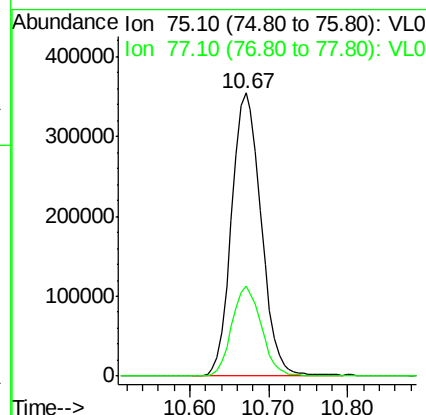
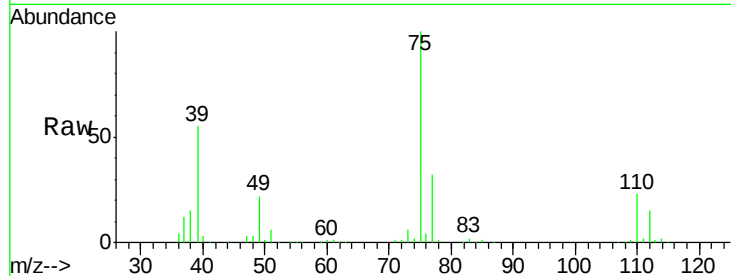
#45
 t-1,3-Dichloropropene
 Concen: 12.04 ppbv
 RT: 10.67 min Scan# 1244
 Delta R.T. -0.02 min
 Lab File: VL026362.D
 Acq: 11 Nov 2015 12:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1111ABS01

Tot Ion: 75 Resp: 928529
 Ion Ratio Lower Upper
 75 100
 77 31.8 24.7 37.1

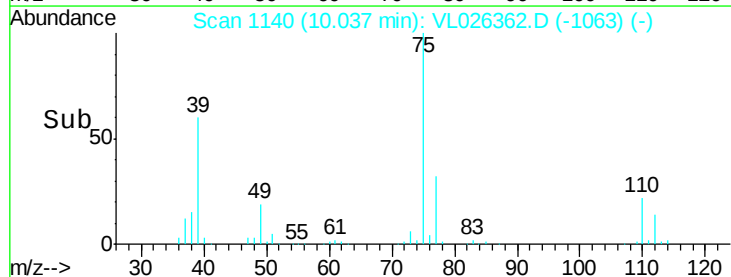
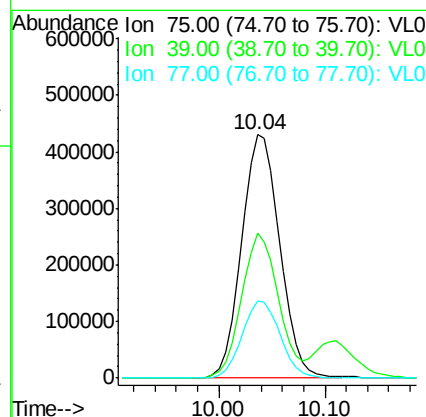
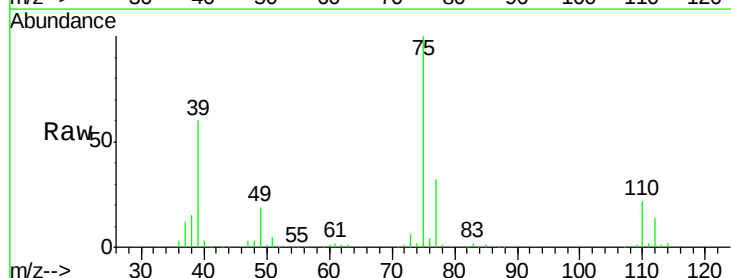
Manual Integrations
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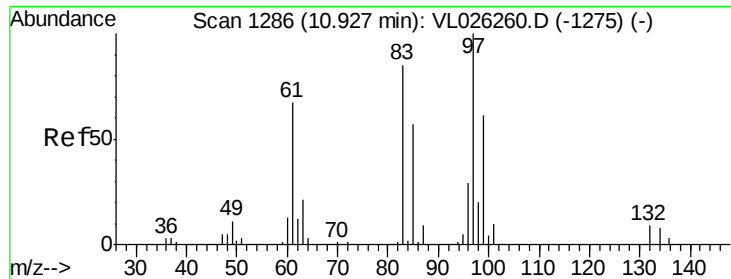
mohammad
 11/12/2015 6:51:49 PM



#46
 cis-1,3-Dichloropropene
 Concen: 11.58 ppbv
 RT: 10.04 min Scan# 1140
 Delta R.T. -0.03 min
 Lab File: VL026362.D
 Acq: 11 Nov 2015 12:24

Tgt Ion: 75 Resp: 1085922
 Ion Ratio Lower Upper
 75 100
 39 59.6 45.8 68.8
 77 31.8 25.3 37.9





#47

1,1,2-Trichloroethane

Concen: 10.64 ppbv

RT: 10.90 min Scan# 1281

Delta R.T. -0.03 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

Instrument :

MSVOA_L

ClientSampleId :

VL1111ABS01

Tot Ion: 97 Resp: 720658

Ion Ratio Lower Upper

97 100

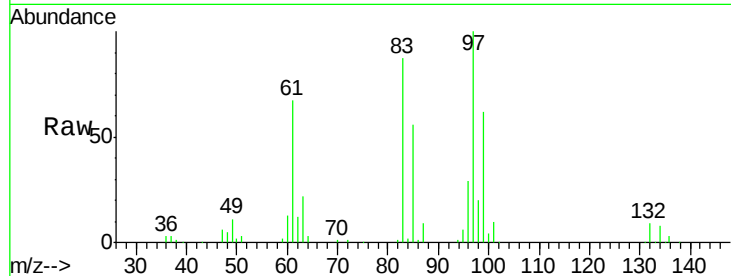
83 86.5 67.9 101.9

85 55.9 45.2 67.8

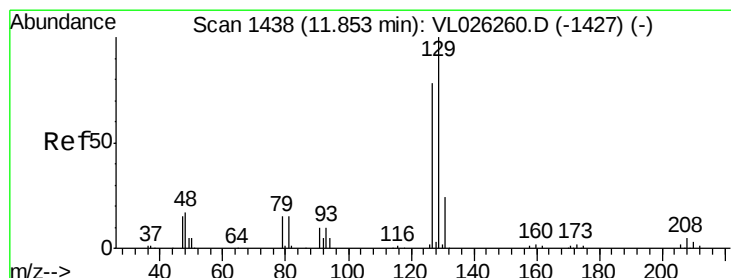
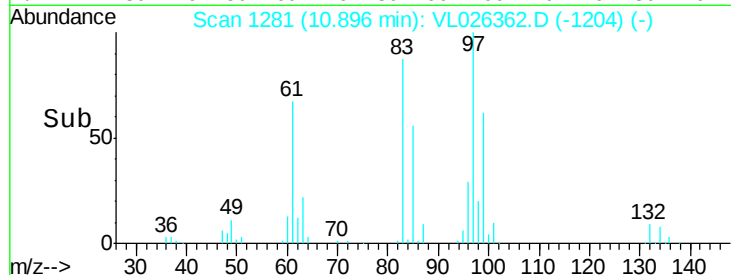
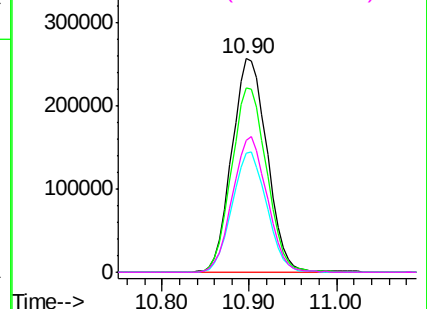
99 61.7 49.0 73.6

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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: 11.57 ppbv

RT: 11.82 min Scan# 1433

Delta R.T. -0.03 min

Lab File: VL026362.D

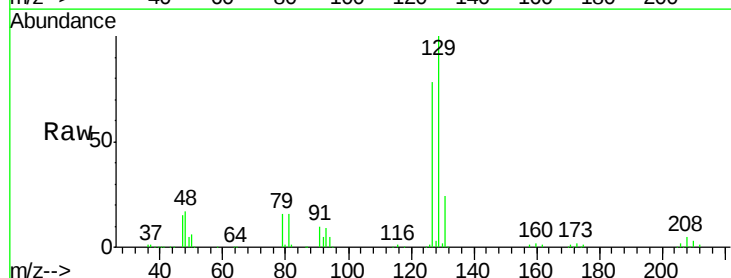
Acq: 11 Nov 2015 12:24

Tgt Ion: 129 Resp: 1119884

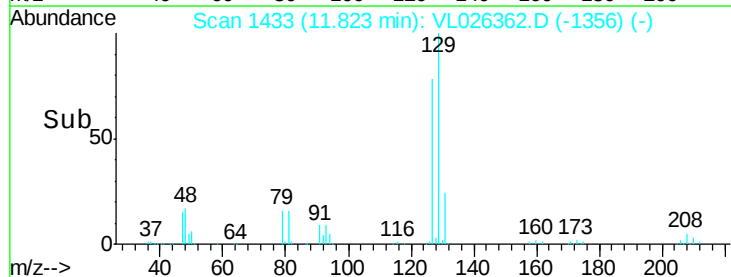
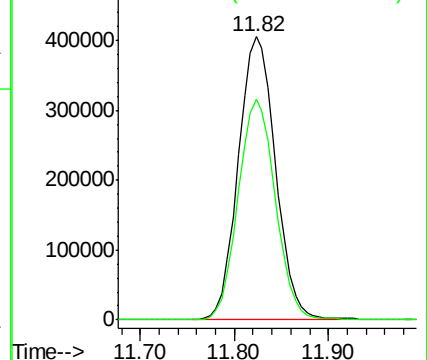
Ion Ratio Lower Upper

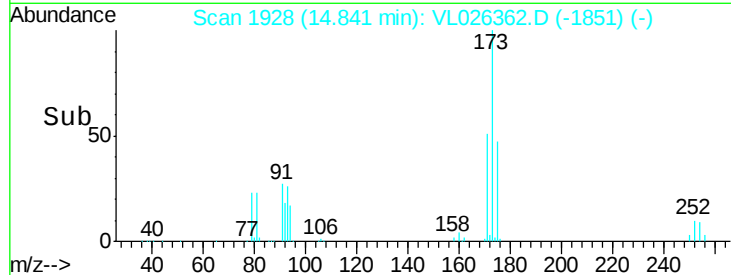
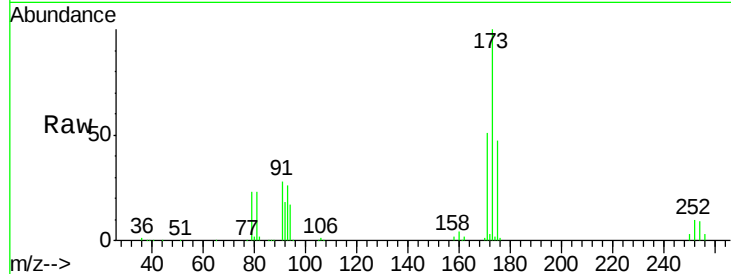
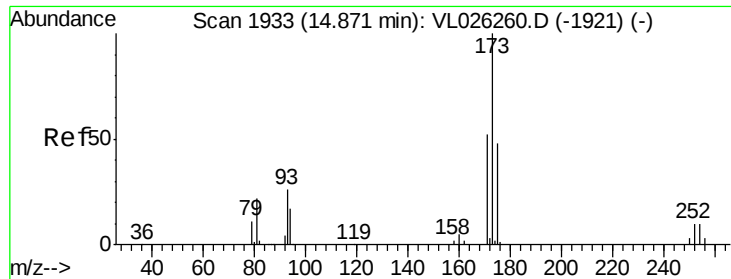
129 100

127 78.1 39.1 117.2



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 11.88 ppbv

RT: 14.84 min Scan# 1928

Delta R.T. -0.03 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

Tot Ion:	173	Resp:	893602
Ion Ratio	Lower	Upper	
173	100		
175	48.6	38.8	58.2
171	51.9	41.7	62.5

Instrument :

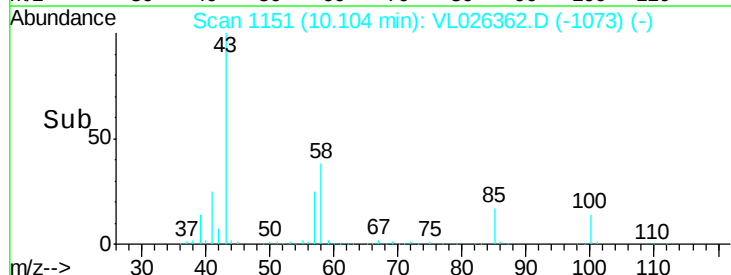
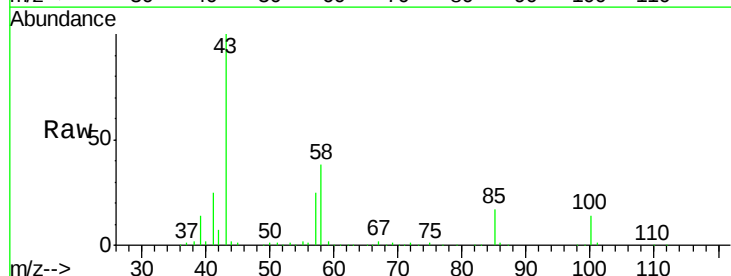
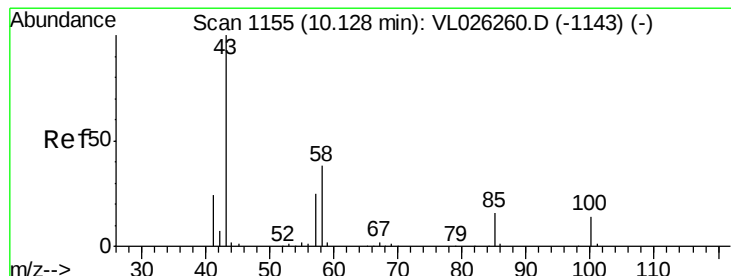
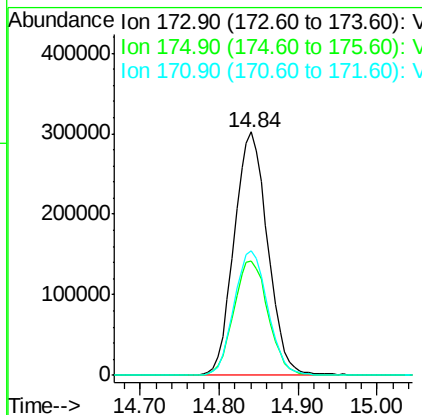
MSVOA_L

ClientSampleId :

VL1111ABS01

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#50

4-Methyl-2-Pentanone

Concen: 11.22 ppbv

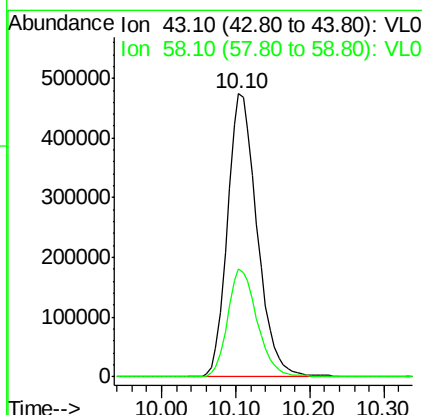
RT: 10.10 min Scan# 1151

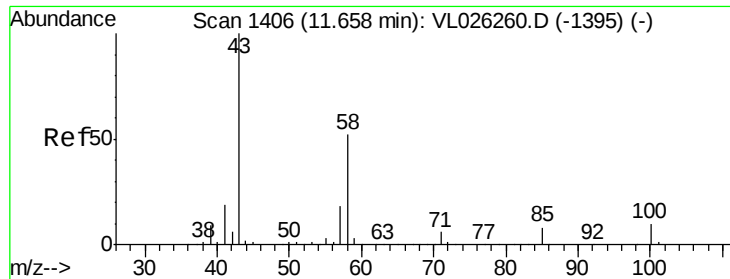
Delta R.T. -0.02 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

Tgt Ion:	43	Resp:	1317755
Ion Ratio	Lower	Upper	
43	100		
58	38.2	30.5	45.7





#51

2-Hexanone

Concen: 11.84 ppbv

RT: 11.63 min Scan# 1402

Delta R.T. -0.02 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

Instrument :

MSVOA_L

ClientSampleId :

VL1111ABS01

Tot Ion: 43 Resp: 1266664

Ion Ratio Lower Upper

43 100

58 52.6 42.7 64.1

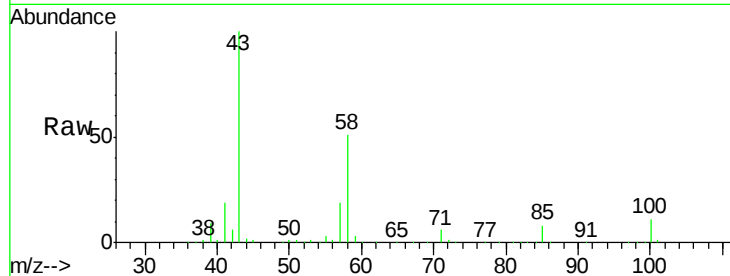
98 0.0 0.0 0.0#

Manual Integrations

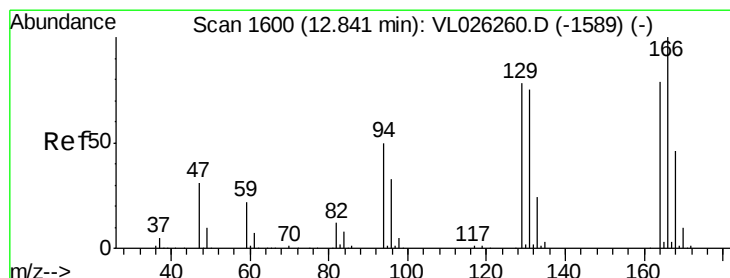
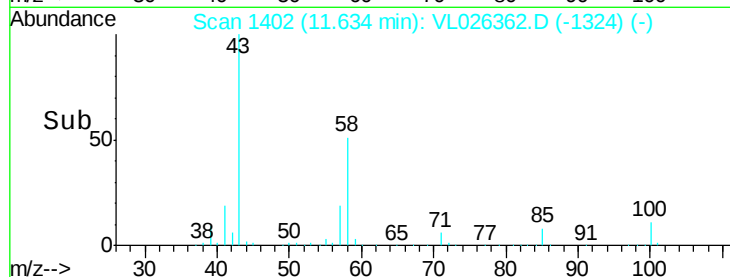
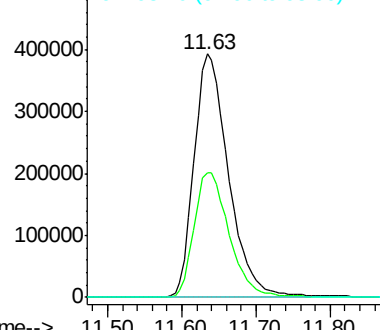
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 9.48 ppbv

RT: 12.82 min Scan# 1596

Delta R.T. -0.02 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

Tgt Ion:164 Resp: 735595

Ion Ratio Lower Upper

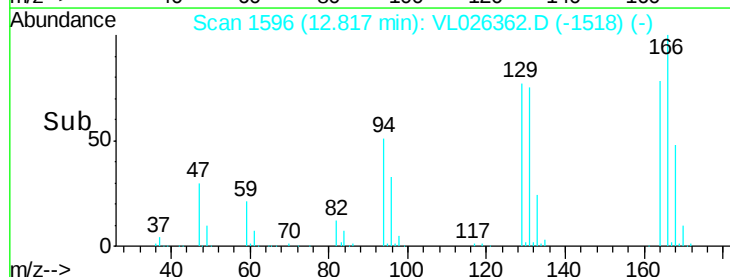
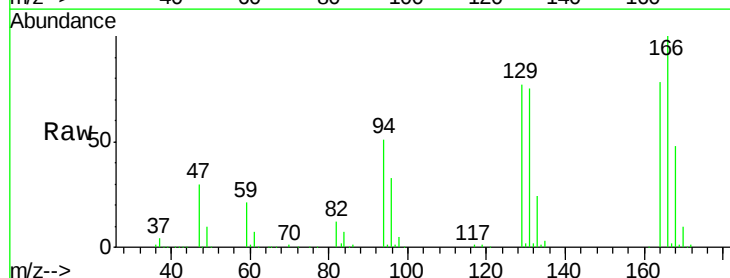
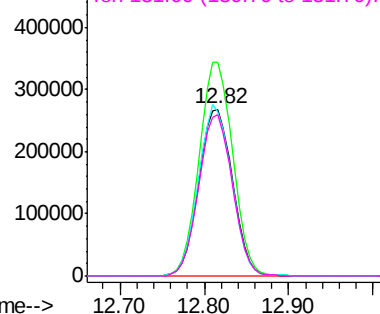
164 100

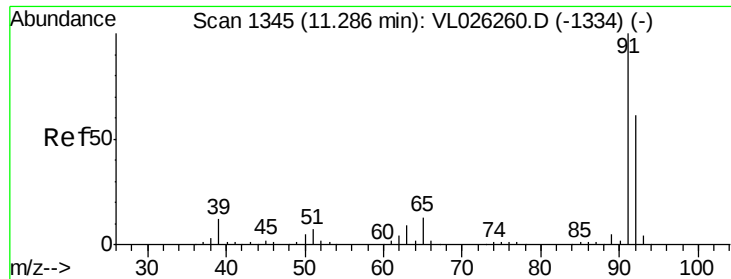
166 128.1 101.4 152.0

129 98.6 78.8 118.2

131 96.7 75.6 113.4

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: 10.79 ppbv

RT: 11.26 min Scan# 1340

Delta R.T. -0.03 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

Instrument :

MSVOA_L

ClientSampleId :

VL1111ABS01

Tot Ion: 91 Resp: 2156552

Ion Ratio Lower Upper

91 100

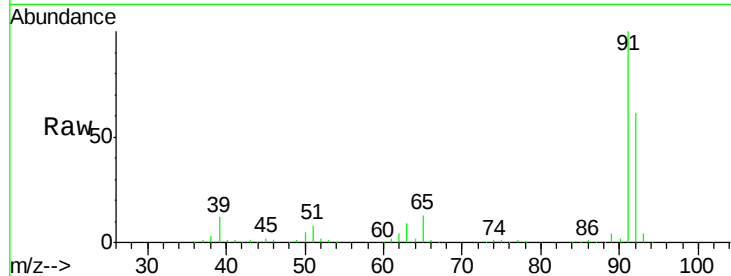
92 60.6 48.6 73.0

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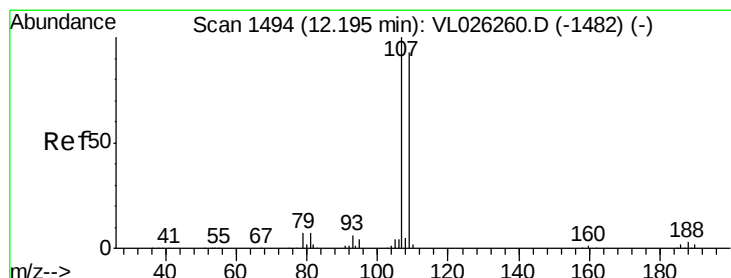
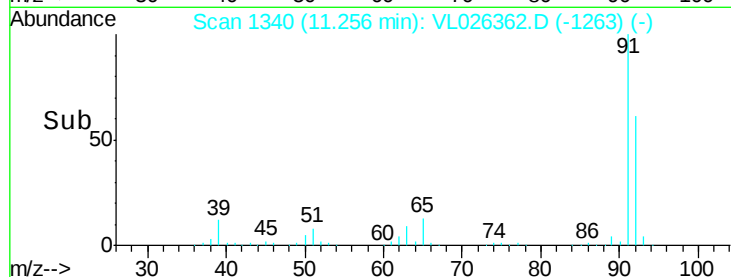
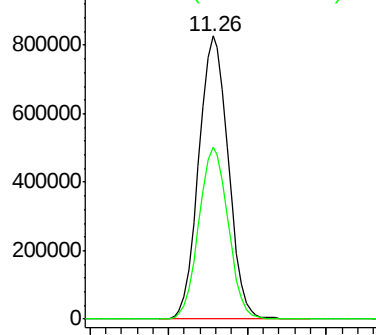
mohammad

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 11.10 ppbv

RT: 12.16 min Scan# 1489

Delta R.T. -0.03 min

Lab File: VL026362.D

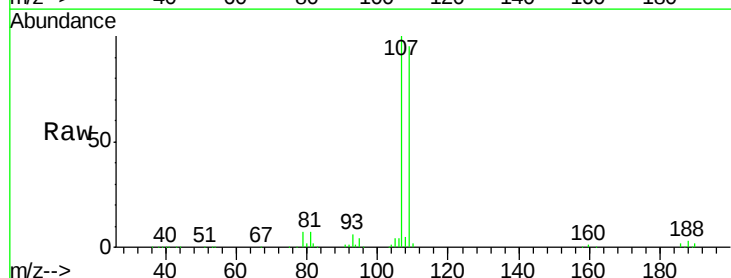
Acq: 11 Nov 2015 12:24

Tgt Ion:107 Resp: 1137833

Ion Ratio Lower Upper

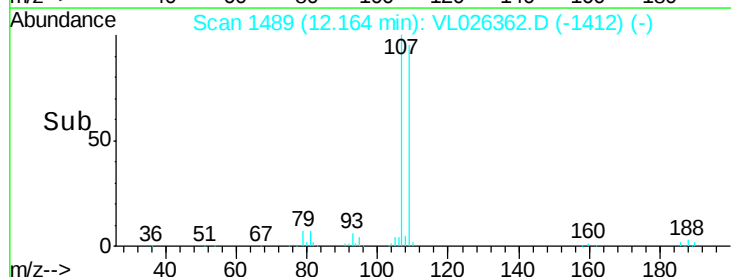
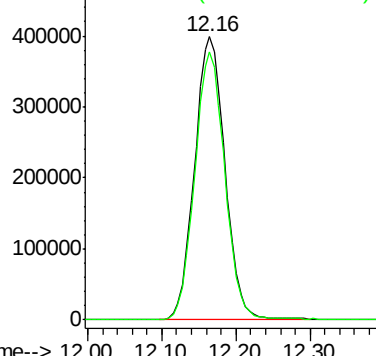
107 100

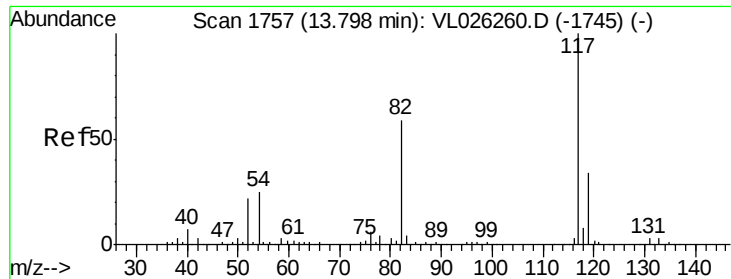
109 94.8 74.6 112.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





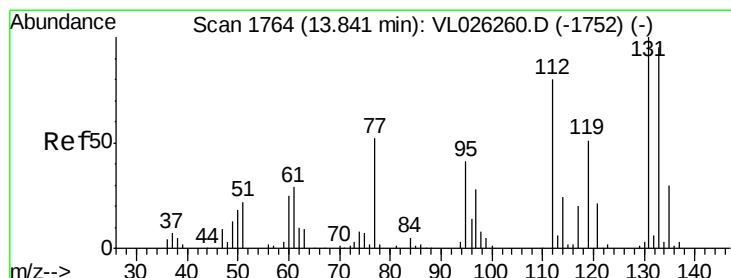
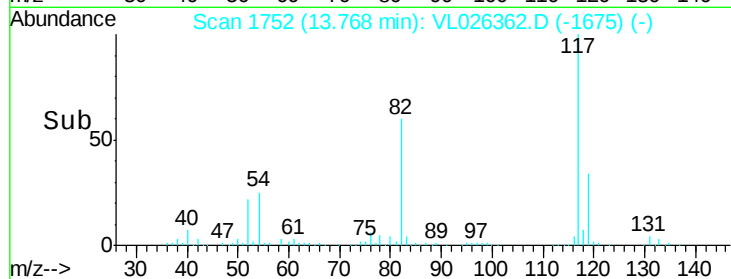
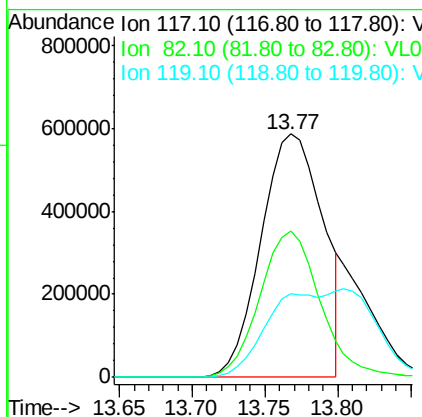
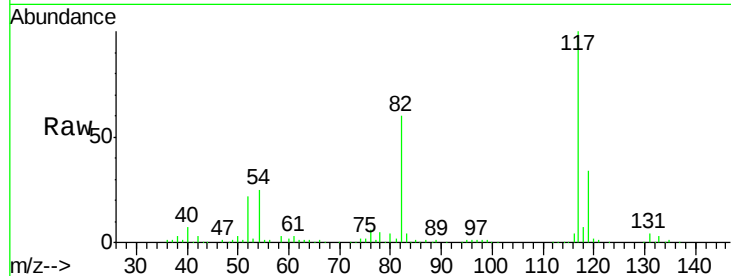
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 13.77 min Scan# 1752
Delta R.T. -0.03 min
Lab File: VL026362.D
Acq: 11 Nov 2015 12:24

Instrument :
MSVOA_L
ClientSampleId :
VL1111ABS01

Tot Ion:117 Resp: 1720942
Ion Ratio Lower Upper
117 100
82 59.5 48.2 72.4
119 62.1 46.2 69.2

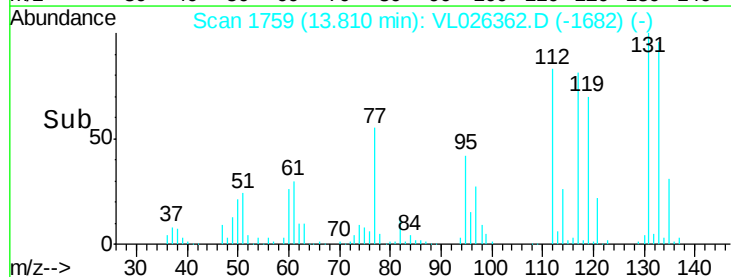
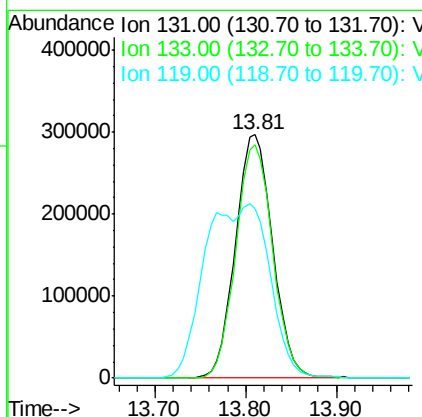
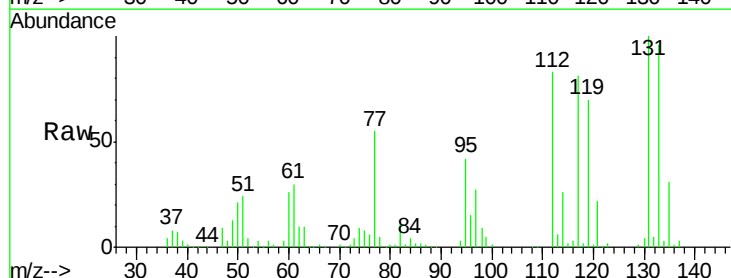
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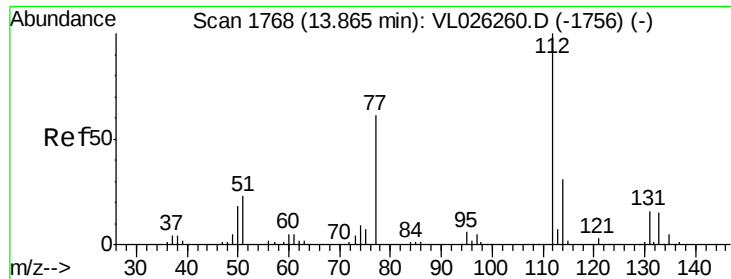
mohammad
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#56
1,1,1,2-Tetrachloroethane
Concen: 11.20 ppbv
RT: 13.81 min Scan# 1759
Delta R.T. -0.03 min
Lab File: VL026362.D
Acq: 11 Nov 2015 12:24

Tgt Ion:131 Resp: 844965
Ion Ratio Lower Upper
131 100
133 95.6 76.1 114.1
119 126.4 111.3 166.9





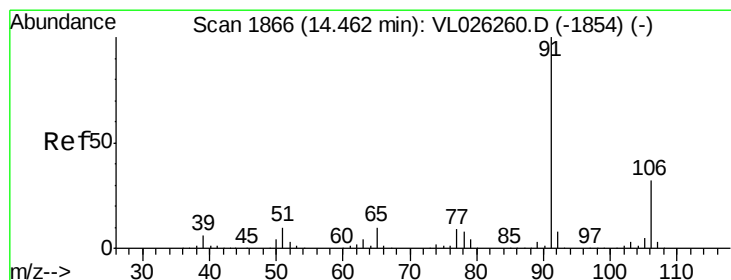
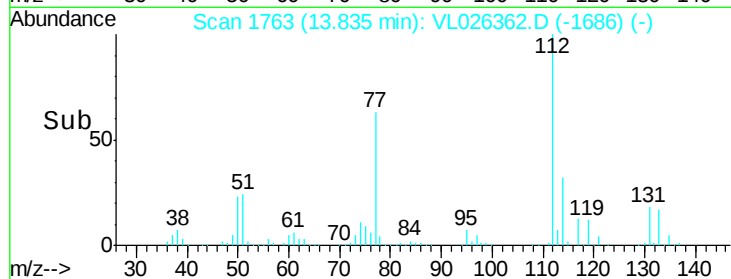
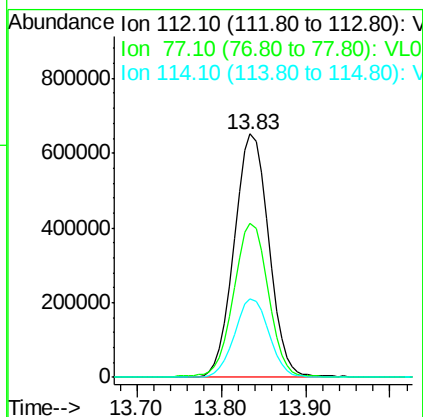
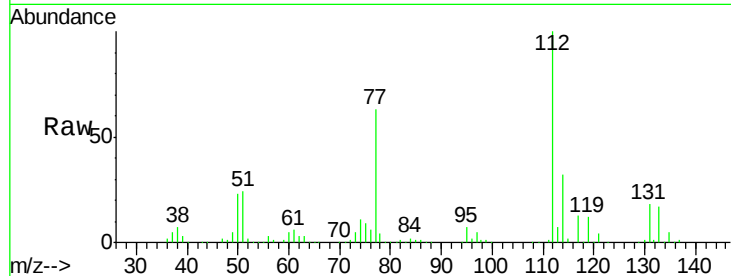
#57
Chlorobenzene
Concen: 10.65 ppbv
RT: 13.83 min Scan# 1763
Delta R.T. -0.03 min
Lab File: VL026362.D
Acq: 11 Nov 2015 12:24

Instrument :
MSVOA_L
ClientSampleId :
VL1111ABS01

Tot Ion: 112 Resp: 1817699
Ion Ratio Lower Upper
112 100
77 63.0 49.4 74.0
114 32.3 27.8 34.0

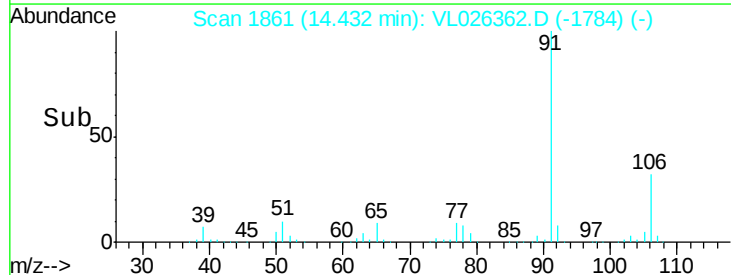
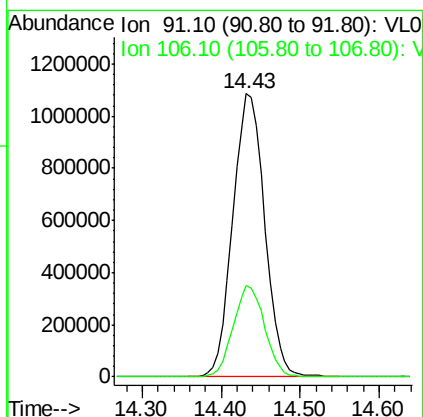
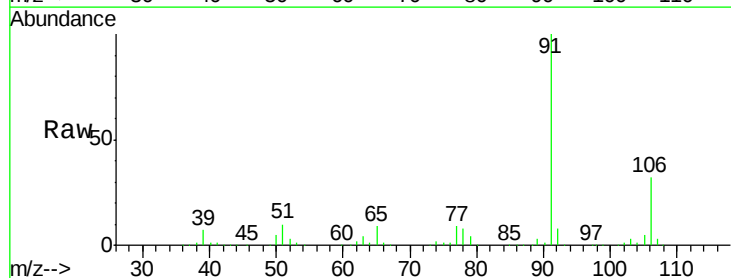
Manual Integrations
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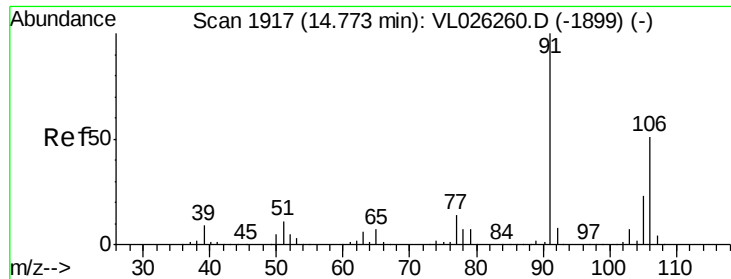
mohammad
11/12/2015 6:51:49 PM



#58
Ethyl Benzene
Concen: 10.83 ppbv
RT: 14.43 min Scan# 1861
Delta R.T. -0.03 min
Lab File: VL026362.D
Acq: 11 Nov 2015 12:24

Tgt Ion: 91 Resp: 3062923
Ion Ratio Lower Upper
91 100
106 32.1 25.7 38.5





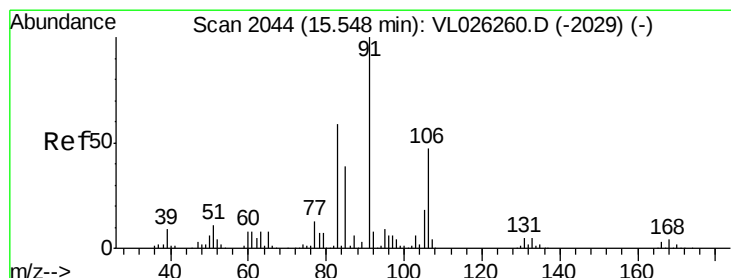
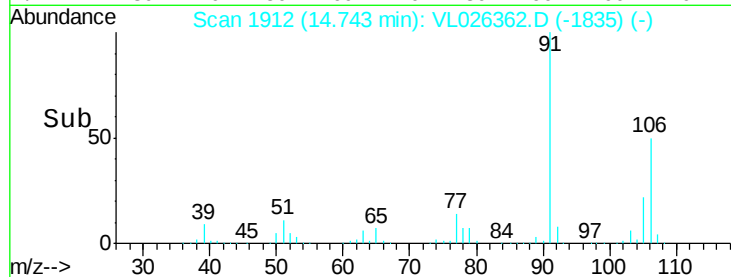
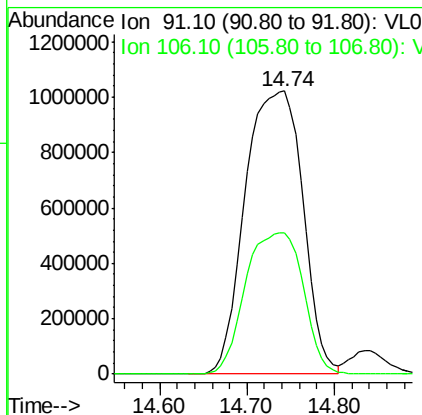
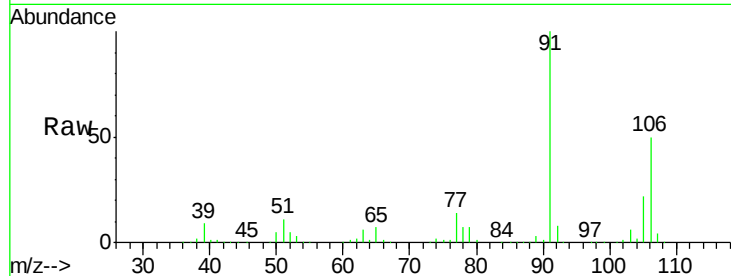
#59
m/p-Xylene
Concen: 20.83 ppbv
RT: 14.74 min Scan# 1912
Delta R.T. -0.03 min
Lab File: VL026362.D
Acq: 11 Nov 2015 12:24

Instrument :
MSVOA_L
ClientSampleId :
VL1111ABS01

Tot Ion: 91 Resp: 4667292
Ion Ratio Lower Upper
91 100
106 50.5 0.0 0.0#

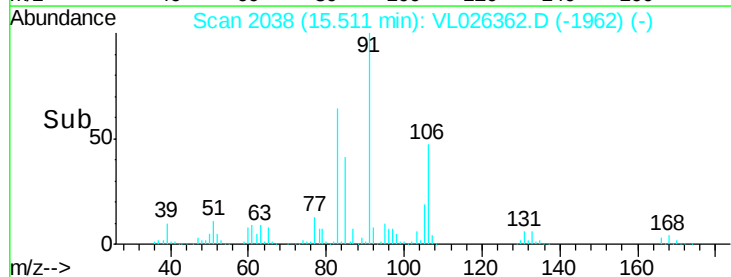
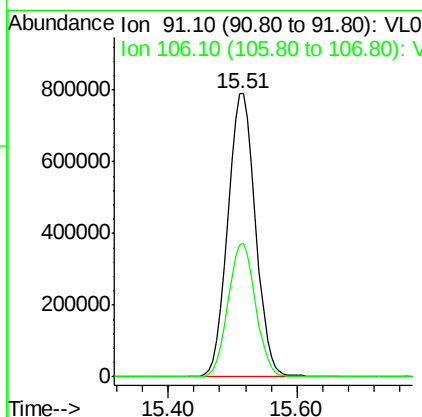
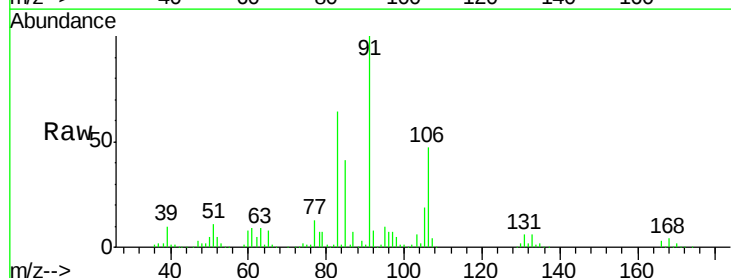
Manual Integrations
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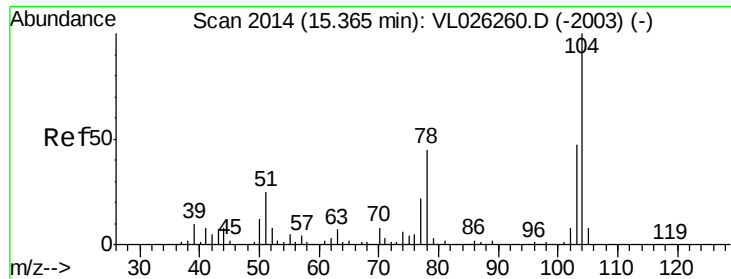
mohammad
11/12/2015 6:51:49 PM



#60
o-Xylene
Concen: 10.16 ppbv
RT: 15.51 min Scan# 2038
Delta R.T. -0.04 min
Lab File: VL026362.D
Acq: 11 Nov 2015 12:24

Tgt Ion: 91 Resp: 2380272
Ion Ratio Lower Upper
91 100
106 47.1 23.6 70.8





#61

Stvrene

Concen: 11.82 ppbv

RT: 15.33 min Scan# 2009

Delta R.T. -0.03 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

Instrument :

MSVOA_L

ClientSampled :

VL1111ABS01

Tot Ion:104 Resp: 1176903

Ion Ratio Lower Upper

104 100

78 45.0 35.5 53.3

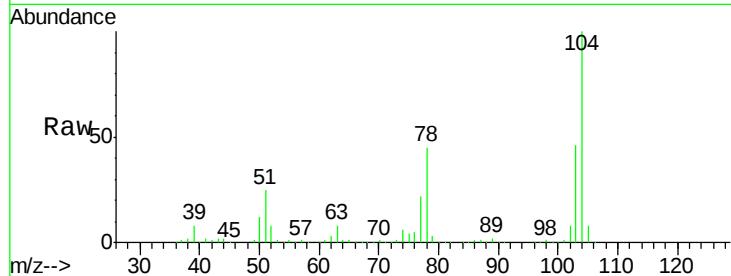
103 46.2 37.0 55.6

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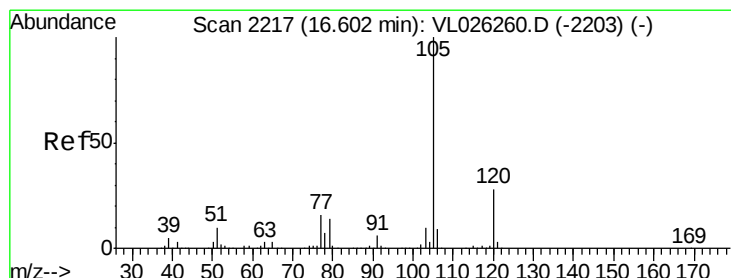
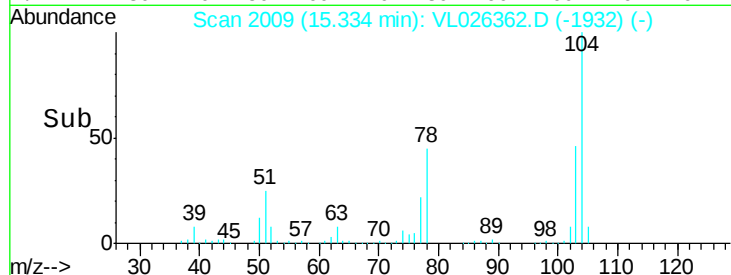
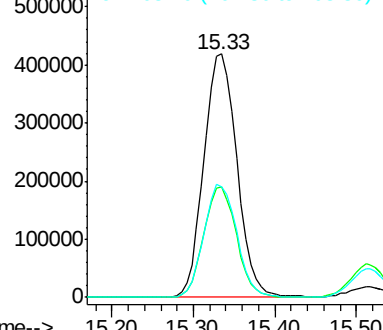
11/12/2015 6:51:49 PM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 10.53 ppbv

RT: 16.57 min Scan# 2211

Delta R.T. -0.04 min

Lab File: VL026362.D

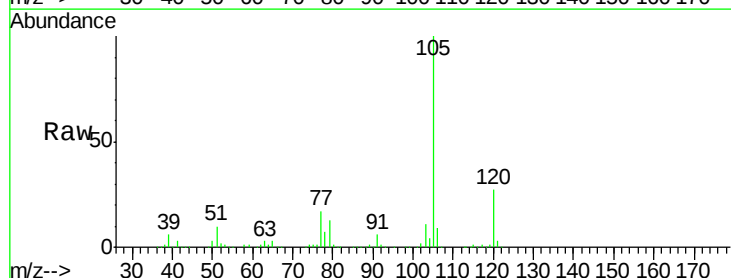
Acq: 11 Nov 2015 12:24

Tgt Ion:105 Resp: 3347096

Ion Ratio Lower Upper

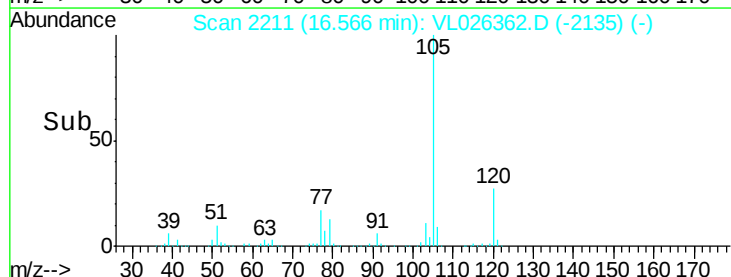
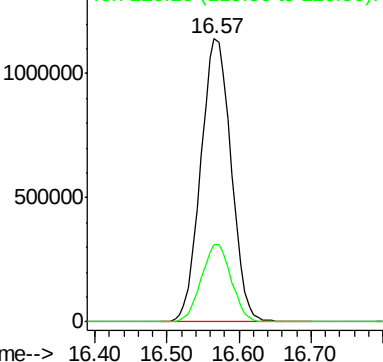
105 100

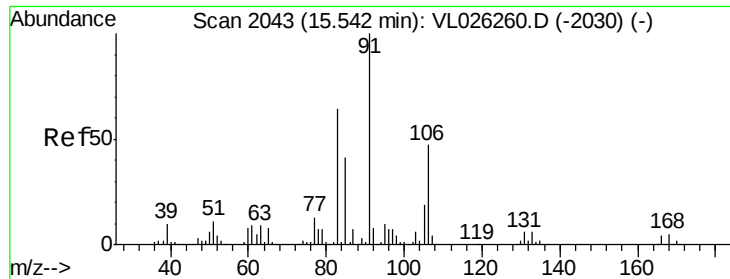
120 27.0 21.7 32.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





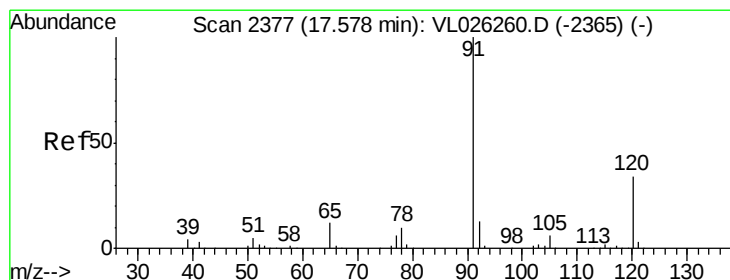
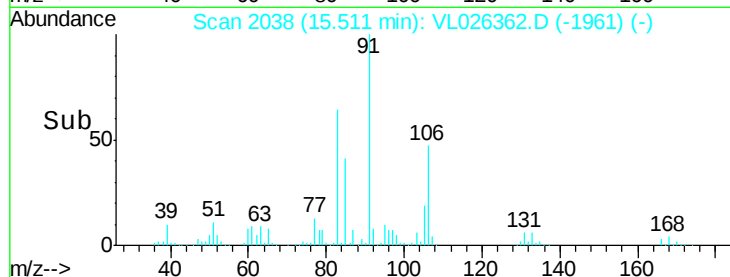
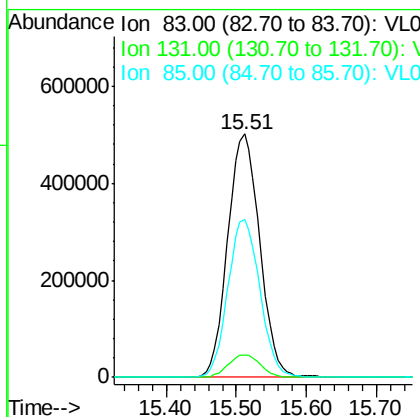
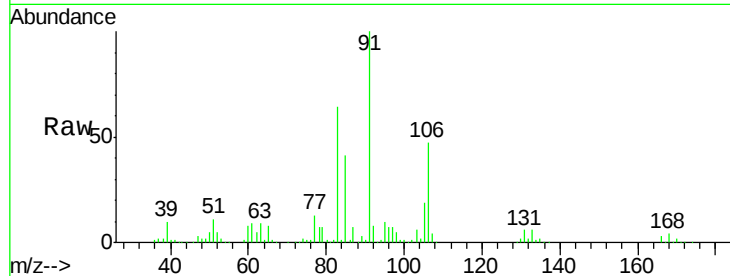
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.80 ppbv
 RT: 15.51 min Scan# 2038
 Delta R.T. -0.03 min
 Lab File: VL026362.D
 Acq: 11 Nov 2015 12:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1111ABS01

Tot Ion	83	Resp	1602780
Ion Ratio	100	Lower	Upper
83	100		
131	9.4	4.6	13.8
85	64.8	32.4	97.2

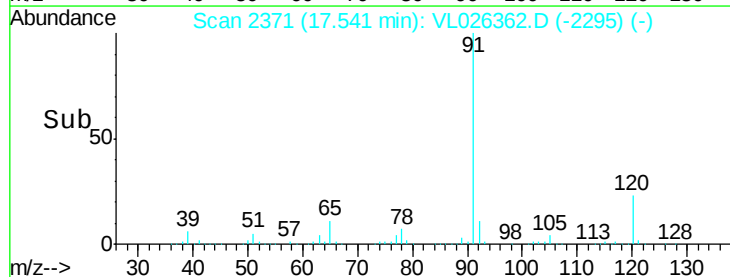
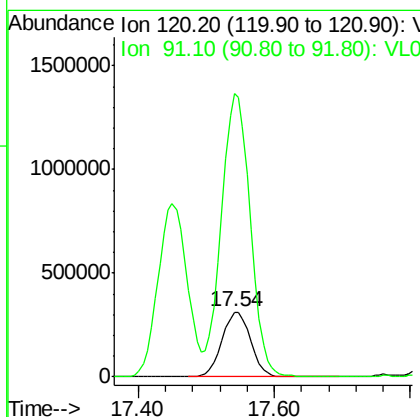
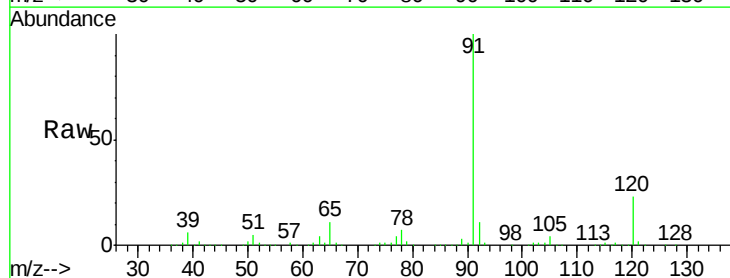
Manual Integrations
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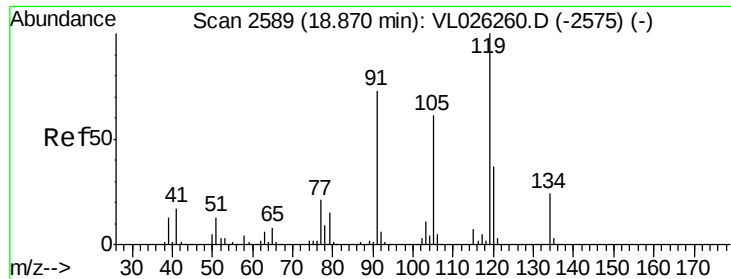
mohammad
 11/12/2015 6:51:49 PM



#64
 n-propylbenzene
 Concen: 10.58 ppbv
 RT: 17.54 min Scan# 2371
 Delta R.T. -0.04 min
 Lab File: VL026362.D
 Acq: 11 Nov 2015 12:24

Tgt Ion	120	Resp	913729
Ion Ratio	100	Lower	Upper
120	100		
91	437.5	340.8	511.2





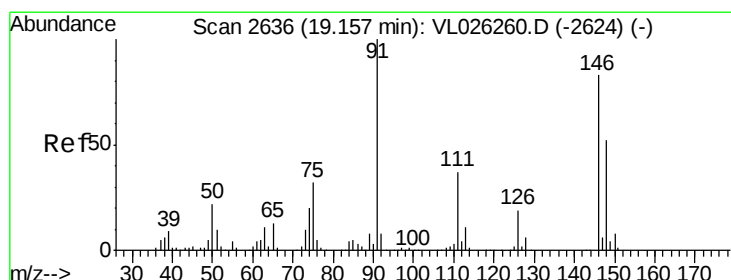
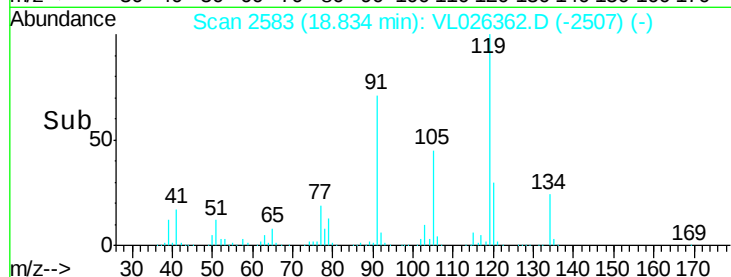
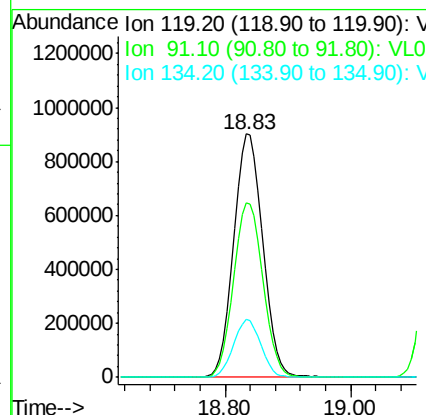
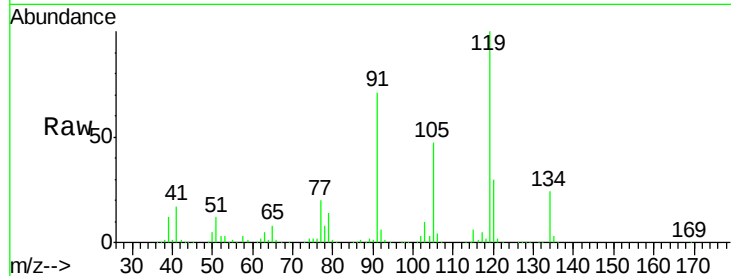
#65
tert-Butylbenzene
Concen: 10.10 ppbv
RT: 18.83 min Scan# 2583
Delta R.T. -0.04 min
Lab File: VL026362.D
Acq: 11 Nov 2015 12:24

Instrument :
MSVOA_L
ClientSampleId :
VL1111ABS01

Tot Ion:119 Resp: 2898790
Ion Ratio Lower Upper
119 100
91 72.7 57.7 86.5
134 22.5 18.0 27.0

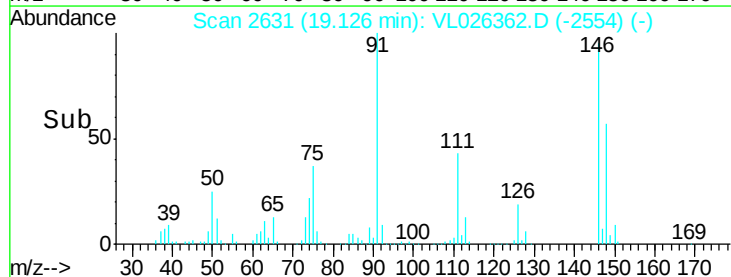
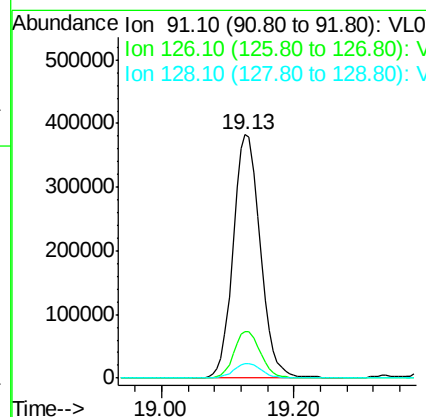
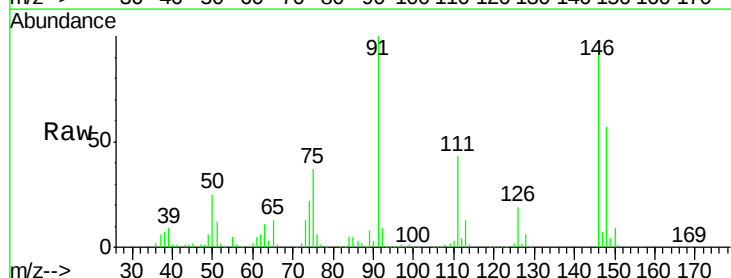
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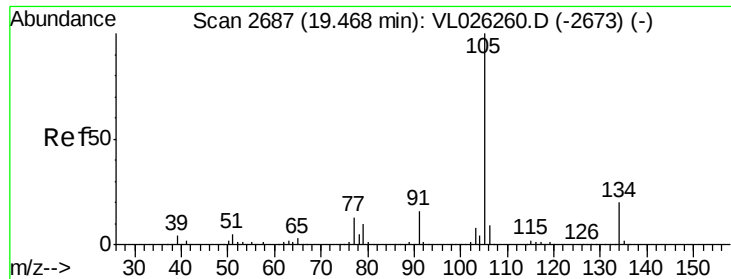
mohammad
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#66
Benzyl Chloride
Concen: 12.11 ppbv
RT: 19.13 min Scan# 2631
Delta R.T. -0.03 min
Lab File: VL026362.D
Acq: 11 Nov 2015 12:24

Tgt Ion: 91 Resp: 1082860
Ion Ratio Lower Upper
91 100
126 18.8 15.8 23.8
128 6.1 5.0 7.6





#67

sec-Butylbenzene

Concen: 10.15 ppbv

RT: 19.43 min Scan# 2681

Delta R.T. -0.04 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

Instrument :

MSVOA_L

ClientSampleId :

VL1111ABS01

Tot Ion: 105 Resp: 4129602

Ion Ratio Lower Upper

105 100

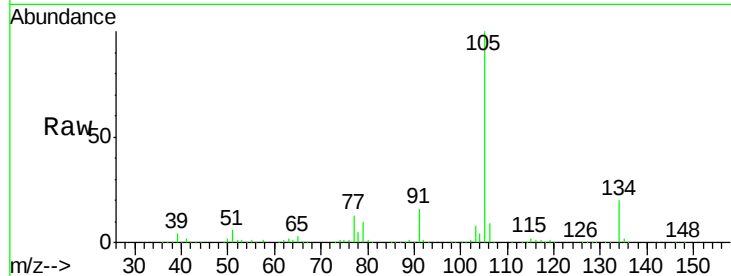
134 19.9 16.0 24.0

Manual Integrations

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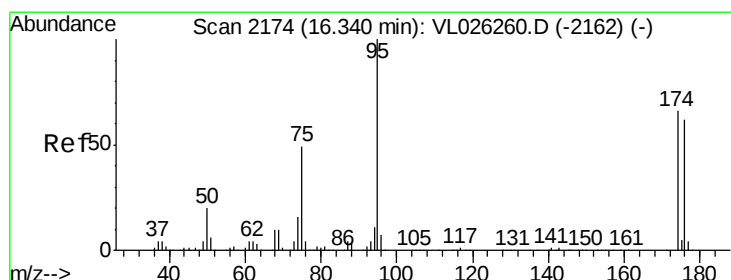
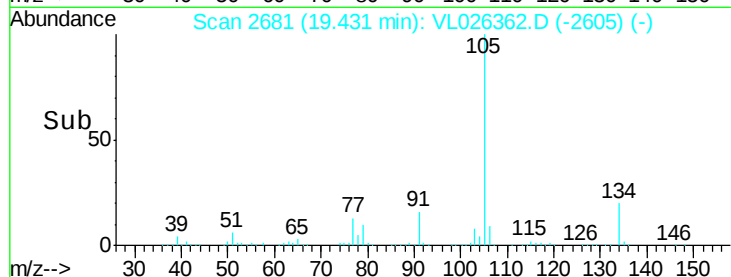
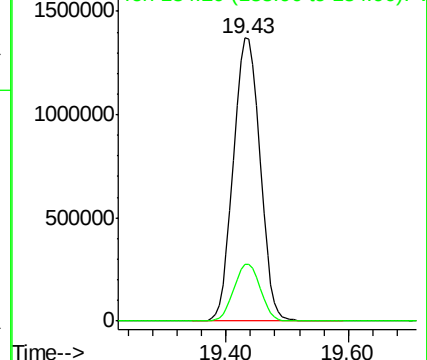
mohammad

11/12/2015 6:51:49 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.47 ppbv

RT: 16.31 min Scan# 2169

Delta R.T. -0.03 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

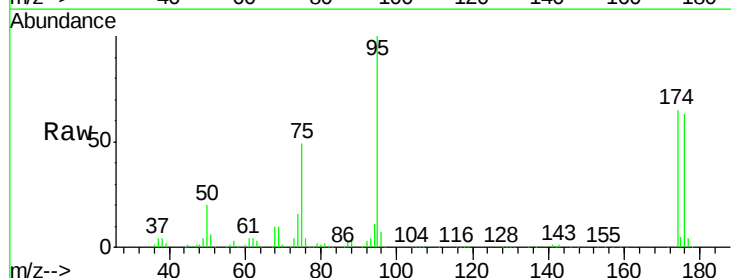
Tgt Ion: 95 Resp: 1235831

Ion Ratio Lower Upper

95 100

174 65.6 52.9 79.3

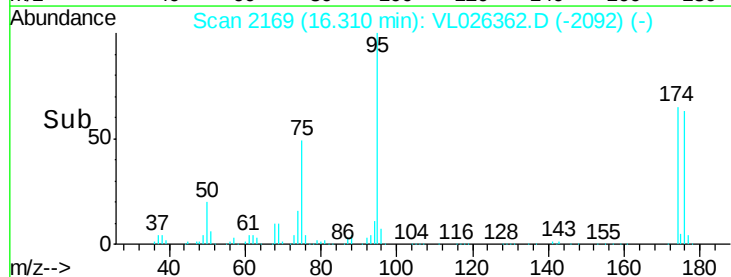
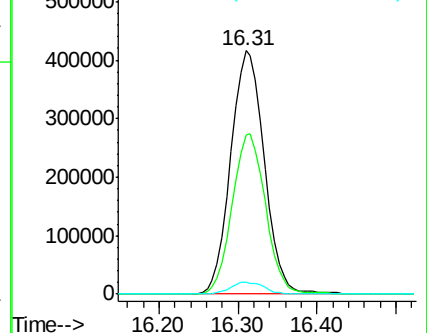
175 4.8 3.8 5.8

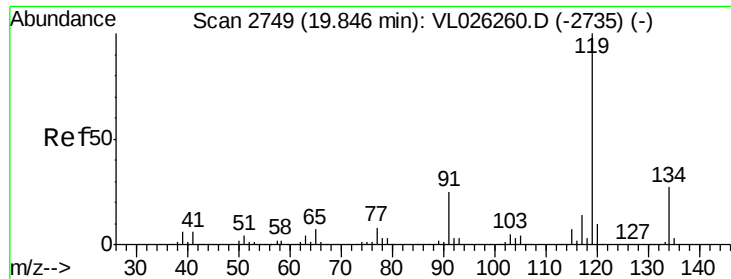


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





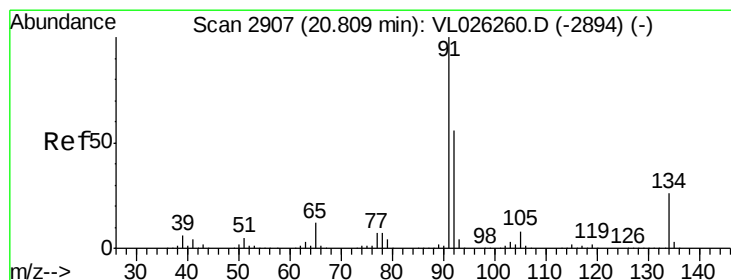
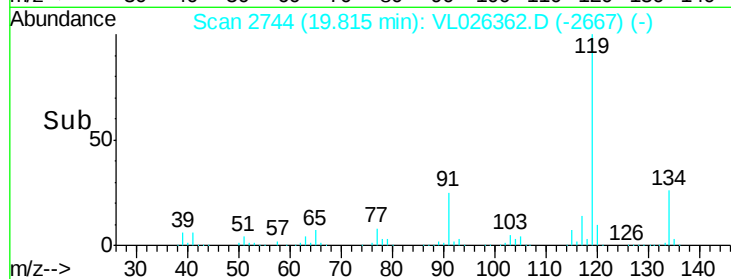
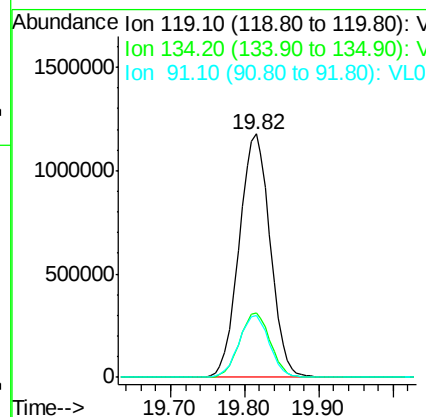
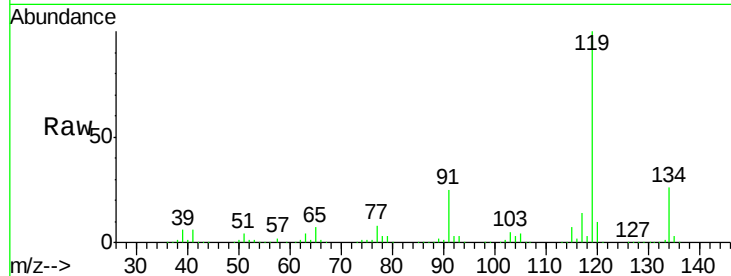
#69
 p-Isopropyltoluene
 Concen: 10.37 ppbv
 RT: 19.82 min Scan# 2744
 Delta R.T. -0.03 min
 Lab File: VL026362.D
 Acq: 11 Nov 2015 12:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1111ABS01

Tot Ion: 119 Resp: 3436323
 Ion Ratio Lower Upper
 119 100
 134 26.4 21.3 31.9
 91 25.0 19.6 29.4

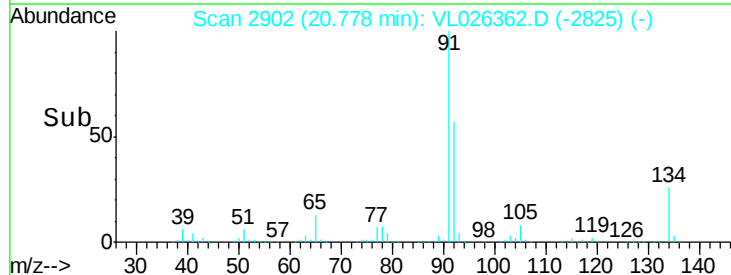
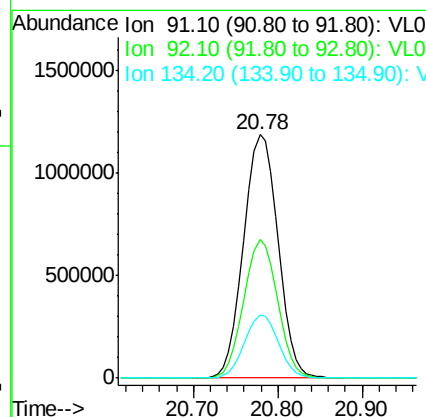
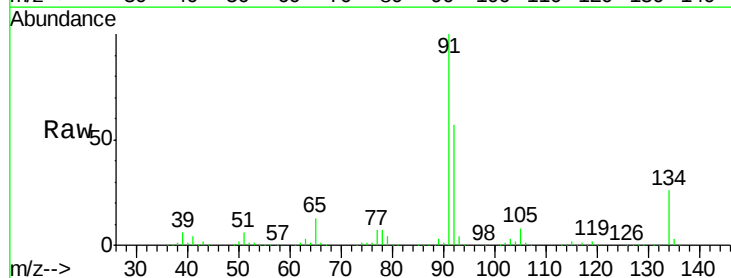
Manual Integrations
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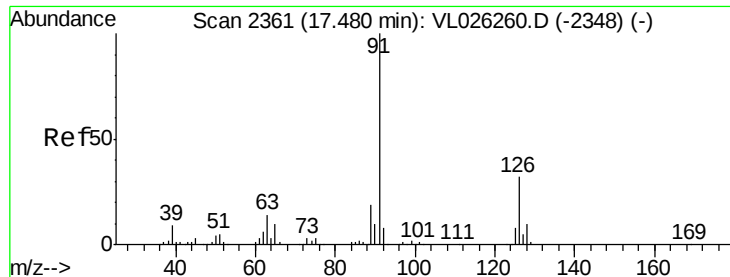
mohammad
 11/12/2015 6:51:49 PM



#70
 n-Butylbenzene
 Concen: 10.48 ppbv
 RT: 20.78 min Scan# 2902
 Delta R.T. -0.03 min
 Lab File: VL026362.D
 Acq: 11 Nov 2015 12:24

Tgt Ion: 91 Resp: 3302078
 Ion Ratio Lower Upper
 91 100
 92 55.8 44.9 67.3
 134 25.5 20.5 30.7





#71

2-Chlorotoluene

Concen: 10.60 ppbv

RT: 17.45 min Scan# 2356

Delta R.T. -0.03 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

Instrument :

MSVOA_L

ClientSampleId :

VL1111ABS01

Tot Ion: 91 Resp: 2485994

Ion Ratio Lower Upper

91 100

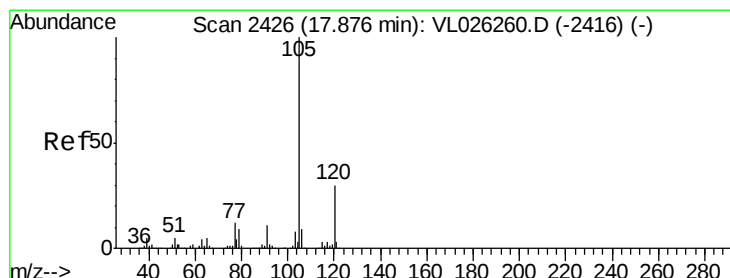
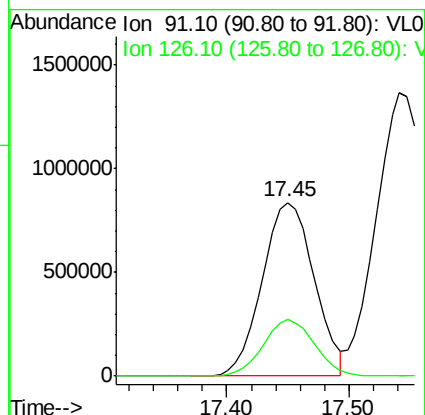
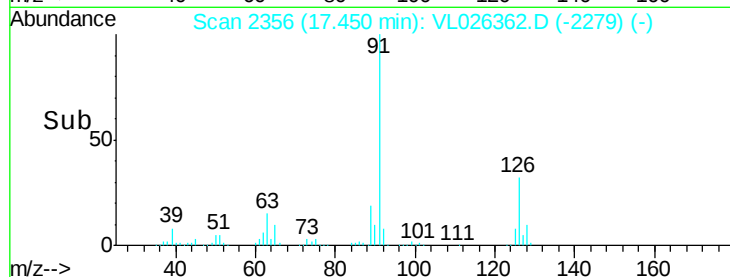
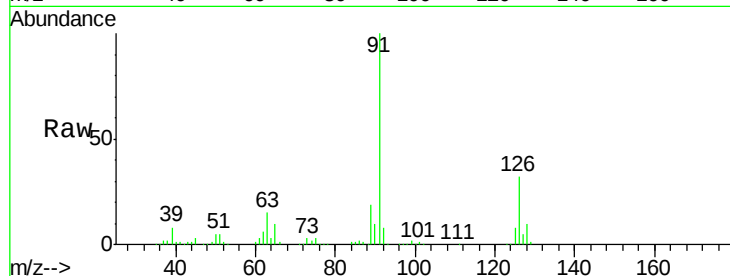
126 32.2 12.8 51.0

Manual Integrations

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#72

4-Ethyltoluene

Concen: 10.84 ppbv

RT: 17.85 min Scan# 2421

Delta R.T. -0.03 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

Tgt Ion: 105 Resp: 2851382

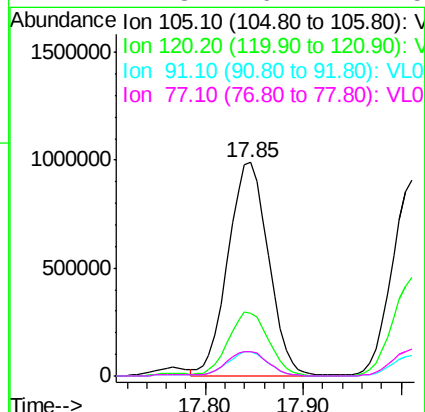
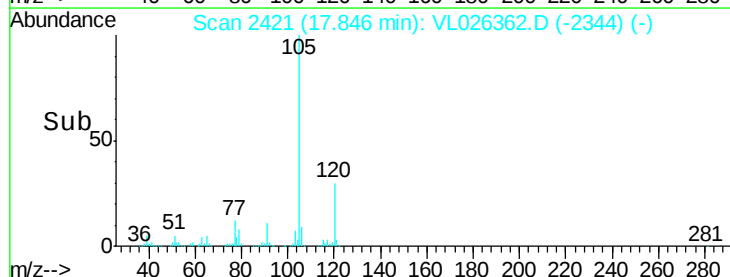
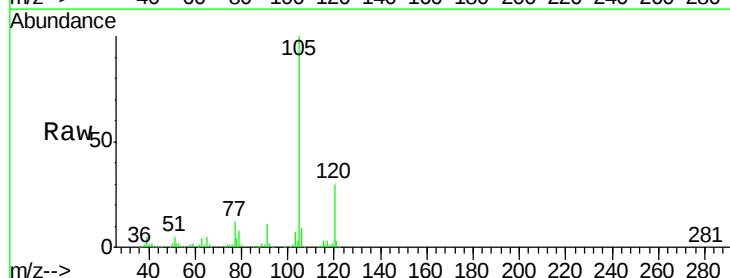
Ion Ratio Lower Upper

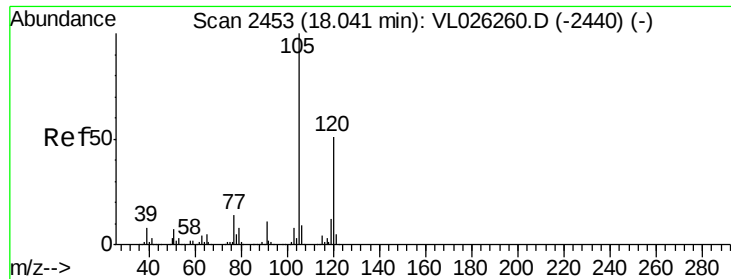
105 100

120 31.1 25.1 37.7

91 11.8 9.1 13.7

77 12.3 9.7 14.5





#73

1,3,5-Trimethylbenzene

Concen: 10.67 ppbv

RT: 18.01 min Scan# 2448

Delta R.T. -0.03 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

Instrument :

MSVOA_L

ClientSampleId :

VL1111ABS01

Tot Ion:105 Resp: 2648579

Ion Ratio Lower Upper

105 100

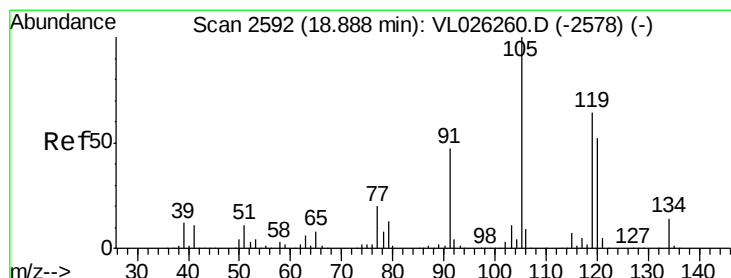
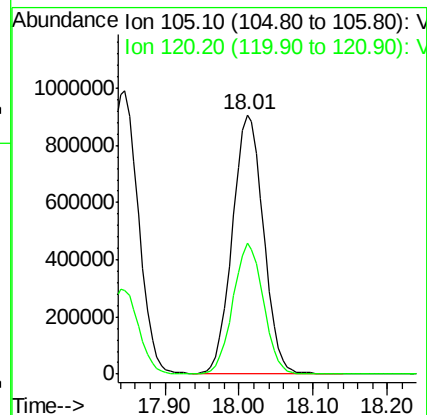
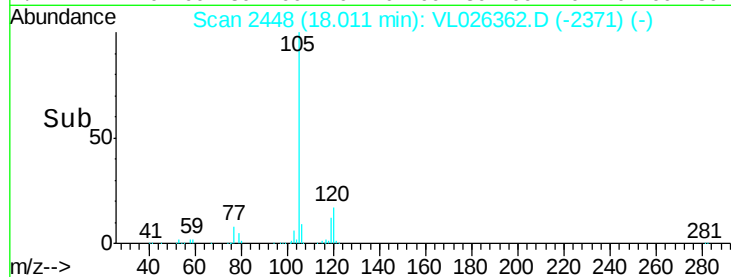
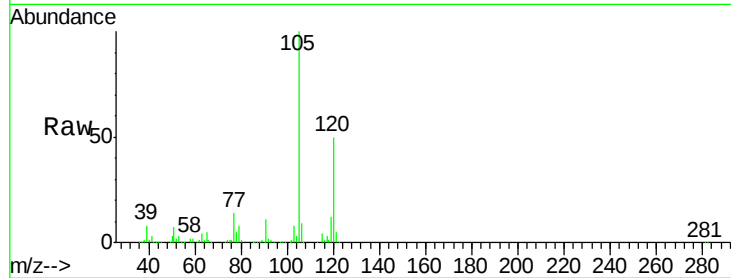
120 50.3 40.6 61.0

Manual Integrations

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#74

1,2,4-Trimethylbenzene

Concen: 10.07 ppbv

RT: 18.86 min Scan# 2587

Delta R.T. -0.03 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

Tgt Ion:105 Resp: 2616946

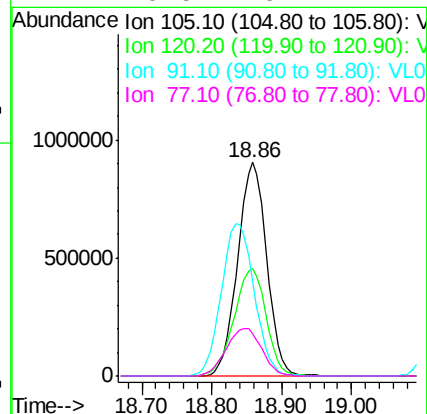
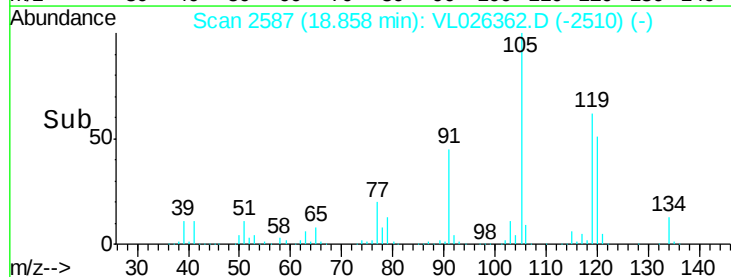
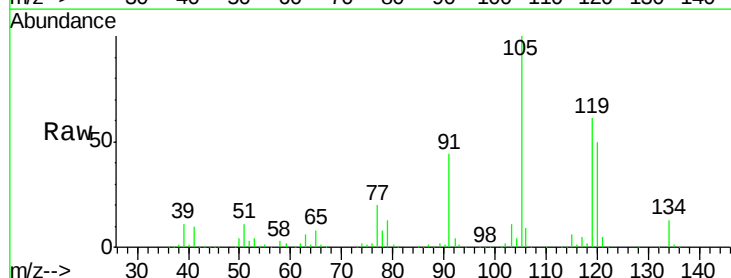
Ion Ratio Lower Upper

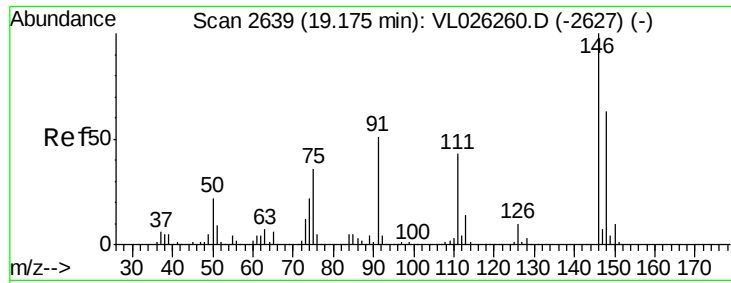
105 100

120 50.2 41.2 61.8

91 44.4 37.8 56.8

77 19.5 16.1 24.1





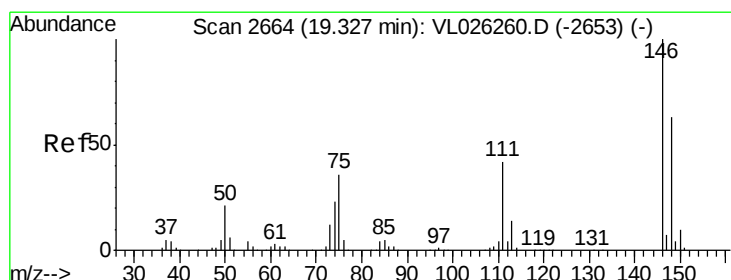
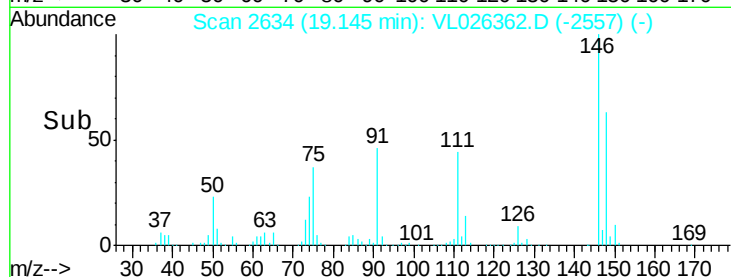
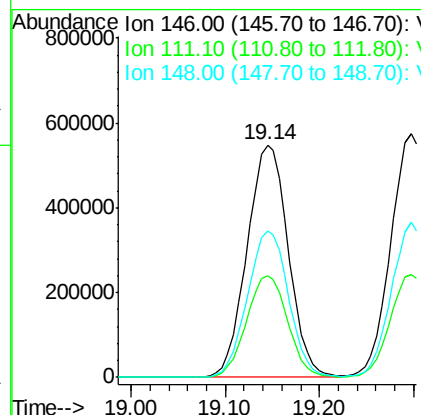
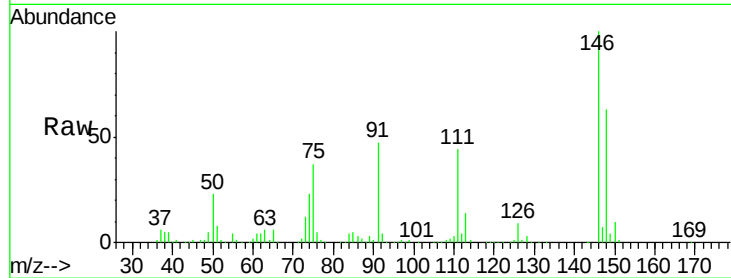
#75
 1,3-Dichlorobenzene
 Concen: 9.93 ppbv
 RT: 19.14 min Scan# 2634
 Delta R.T. -0.03 min
 Lab File: VL026362.D
 Acq: 11 Nov 2015 12:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1111ABS01

Tot Ion:146 Resp: 1670590
 Ion Ratio Lower Upper
 146 100
 111 43.7 21.9 65.5
 148 63.0 31.8 95.3

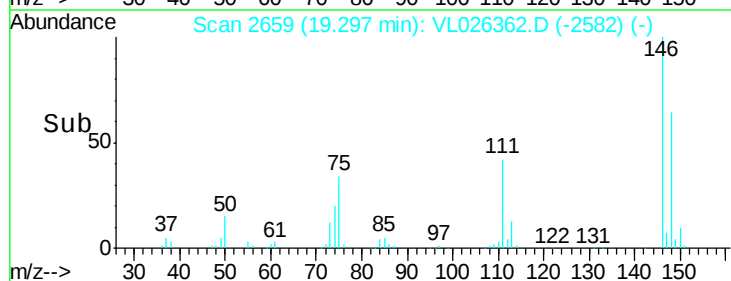
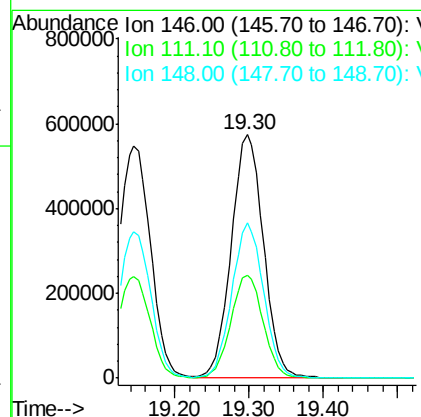
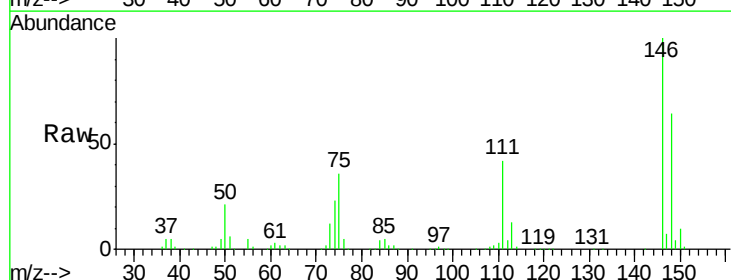
Manual Integrations
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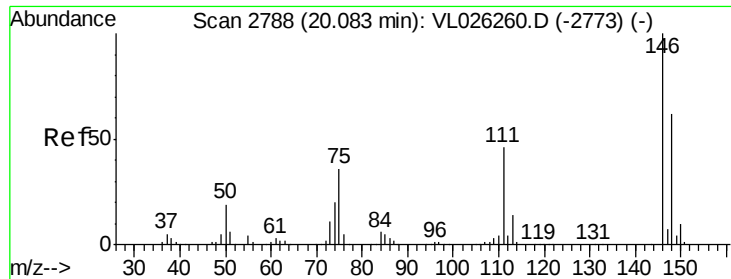
mohammad
 11/12/2015 6:51:49 PM



#76
 1,4-Dichlorobenzene
 Concen: 10.15 ppbv
 RT: 19.30 min Scan# 2659
 Delta R.T. -0.03 min
 Lab File: VL026362.D
 Acq: 11 Nov 2015 12:24

Tgt Ion:146 Resp: 1736417
 Ion Ratio Lower Upper
 146 100
 111 42.7 21.1 63.4
 148 63.6 31.8 95.3





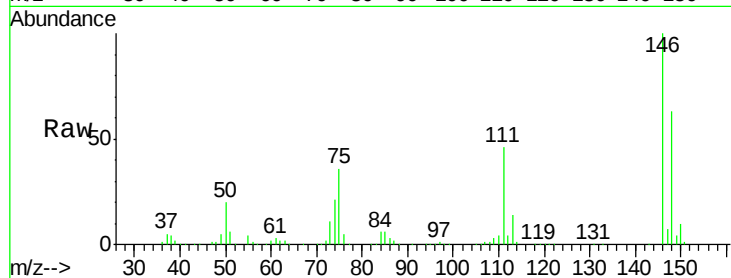
#77
 1,2-Dichlorobenzene
 Concen: 10.10 ppbv
 RT: 20.05 min Scan# 2783
 Delta R.T. -0.03 min
 Lab File: VL026362.D
 Acq: 11 Nov 2015 12:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1111ABS01

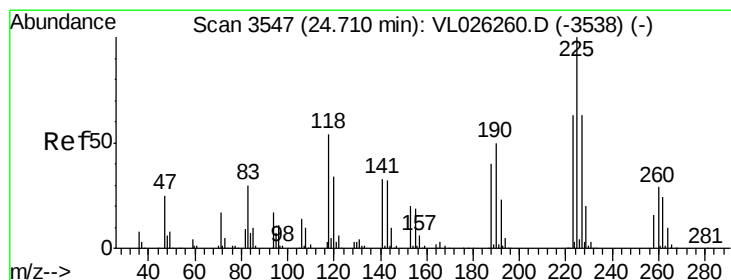
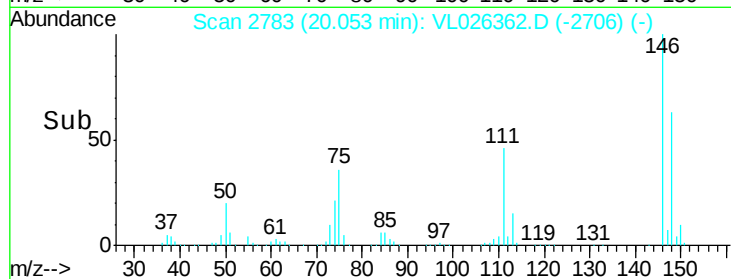
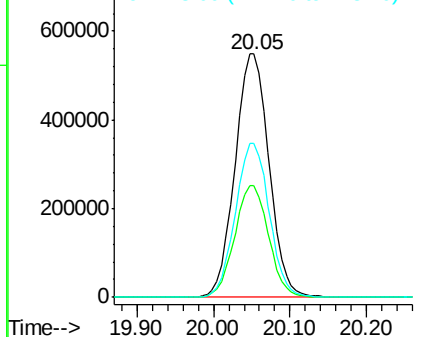
Tot Ion	Ratio	Lower	Upper
146	100		
111	46.0	22.8	68.3
148	63.4	31.6	94.8

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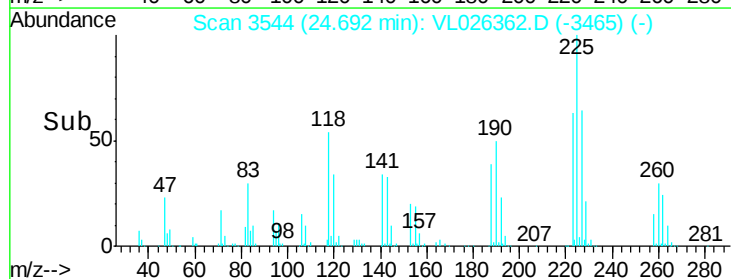
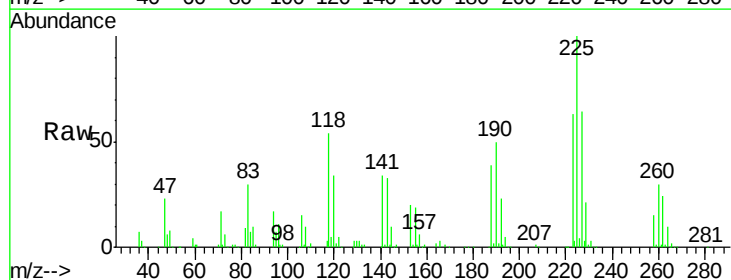
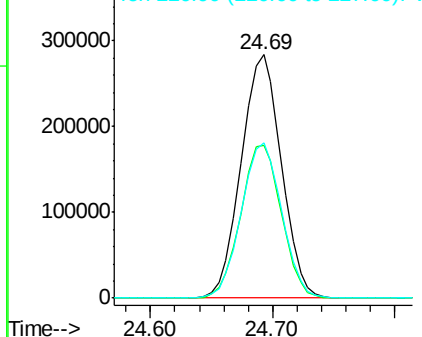
Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

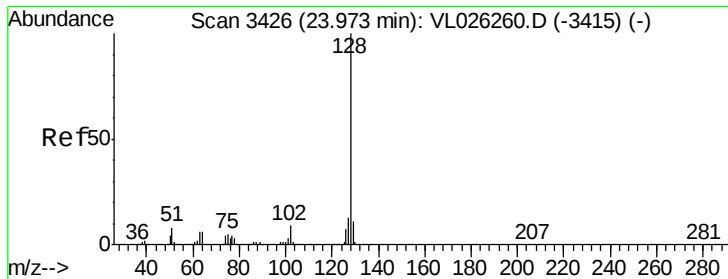


#78
 Hexachloro-1,3-Butadiene
 Concen: 9.55 ppbv
 RT: 24.69 min Scan# 3544
 Delta R.T. -0.02 min
 Lab File: VL026362.D
 Acq: 11 Nov 2015 12:24

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.4	51.0	76.6
227	63.9	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: 11.39 ppbv

RT: 23.95 min Scan# 3422

Delta R.T. -0.02 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

Instrument :

MSVOA_L

ClientSampleId :

VL1111ABS01

Tot Ion:128 Resp: 2114990

Ion Ratio Lower Upper

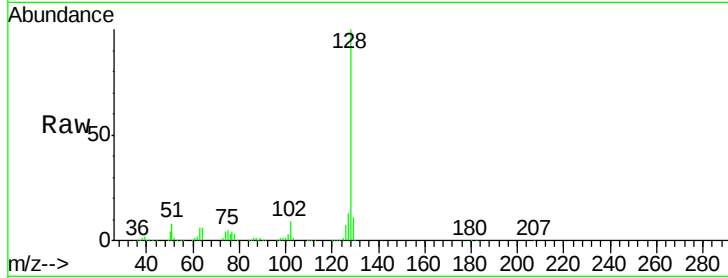
128 100

127 13.0 10.1 15.1

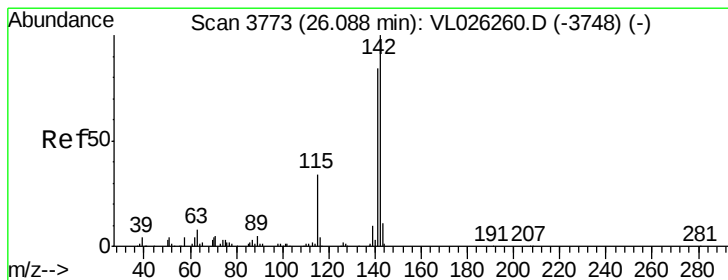
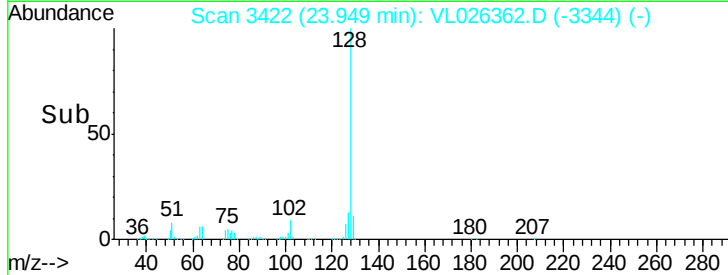
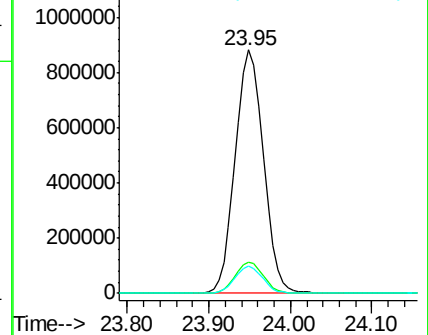
129 11.0 8.8 13.2

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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: 14.47 ppbv

RT: 26.07 min Scan# 3770

Delta R.T. -0.02 min

Lab File: VL026362.D

Acq: 11 Nov 2015 12:24

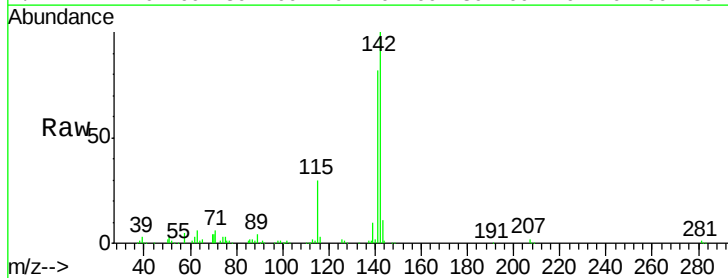
Tgt Ion:142 Resp: 496032

Ion Ratio Lower Upper

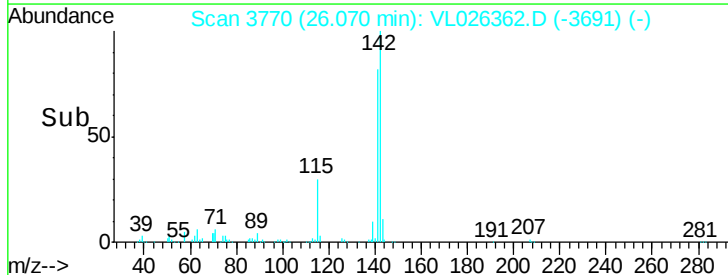
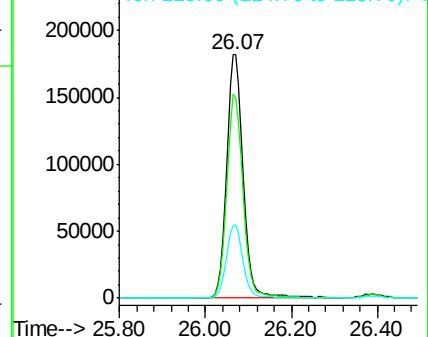
142 100

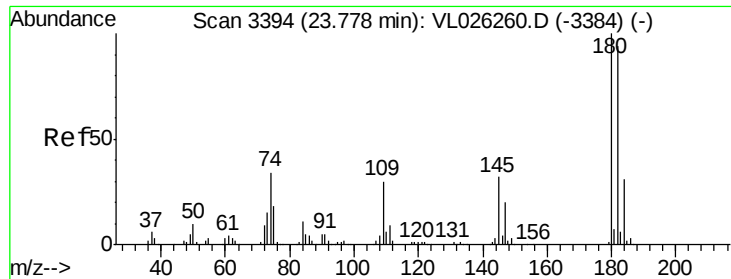
141 83.0 66.1 99.1

115 30.7 28.1 42.1



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: 10.58 ppbv
 RT: 23.75 min Scan# 3390
 Delta R.T. -0.02 min
 Lab File: VL026362.D
 Acq: 11 Nov 2015 12:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1111ABS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	981528		
182	96.3		76.0	114.0
184	30.6		24.2	36.4

Manual Integrations
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