

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081618\
 Data File : VL032381.D
 Acq On : 16 Aug 2018 17:41
 Operator : SY/AP
 Sample : VL0816ABSD01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0816ABSD01

Manual Integrations
 APPROVED

MMDadoda
 8/28/2018 2:53:00 PM

Quant Time: Aug 28 13:51:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 28 2018
 QLast Update : Tue Aug 28 13:07:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.82	49	1623691	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.36	114	3670816	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.31	117	3581533m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.65	95	2768022	10.13	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.11	85	1585761	9.58	ppbv	99
3) Chlorodifluoromethane	3.05	51	1483456	9.86	ppbv	98
4) Chloromethane	3.21	50	879888	9.83	ppbv	100
5) Vinyl Chloride	3.33	62	853706	10.00	ppbv	96
6) Bromomethane	3.55	94	478345	10.46	ppbv	100
7) Chloroethane	3.64	64	304009	10.16	ppbv	91
8) Dichlorotetrafluoroethane	3.26	85	1819256	9.92	ppbv	99
9) Propene	3.07	41	680726	10.57	ppbv	99
10) Heptane	8.31	43	2398647	12.37	ppbv	100
11) Trichlorofluoromethane	4.05	101	1880231	10.35	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.60	101	1243514	10.17	ppbv	98
13) Ethanol	3.69	45	190271	11.51	ppbv	98
14) Bromoethene	3.83	108	559301	10.58	ppbv	99
15) Acetone	3.95	43	1451603	9.41	ppbv	98
16) 1,3-Butadiene	3.40	39	716667	11.25	ppbv	87
17) tert-Butyl alcohol	4.40	59	301232	11.64	ppbv	97
18) 1,1-Dichloroethene	4.40	96	592536	10.40	ppbv	100
19) Isopropyl Alcohol	4.07	45	1194606	11.50	ppbv #	99
20) Methylene Chloride	4.45	84	521798	8.96	ppbv	93
21) Allyl Chloride	4.53	41	1082509	11.12	ppbv	95
22) trans-1,2-Dichloroethene	5.02	96	596529	10.38	ppbv	95
23) Vinyl Acetate	5.21	43	2698072	10.13	ppbv	99
24) 1,1-Dichloroethane	5.14	63	1879865	9.77	ppbv	99
25) Ethyl Acetate	5.82	43	3278015	9.92	ppbv	100
26) Hexane	5.84	57	1481221	10.05	ppbv	98
27) Carbon Disulfide	4.67	76	1544891	11.23	ppbv	98
28) Methyl tert-Butyl Ether	5.16	73	2175011	11.12	ppbv	98
29) Chloroform	5.91	83	2235870	10.35	ppbv	98
30) Cyclohexane	7.31	84	1316054	11.72	ppbv	99
31) cis-1,2-Dichloroethene	5.70	61	1692294	11.74	ppbv	98
32) 1,1,1-Trichloroethane	6.68	97	2164286	10.30	ppbv	99
34) 2-Butanone	5.38	43	2518147	10.08	ppbv	98
35) Carbon Tetrachloride	7.20	117	2333126	10.78	ppbv	99
36) Benzene	7.07	78	3088367	9.92	ppbv	99
37) 1,2-Dichloroethane	6.47	62	1959588	10.38	ppbv	98
38) Trichloroethene	8.03	130	1078460	9.88	ppbv	99
39) 1,2-Dichloropropane	7.80	63	1280029	9.85	ppbv	98
40) 1,4-Dioxane	8.02	88	454754	11.52	ppbv	95
41) Tetrahydrofuran	6.21	42	1462955	10.91	ppbv	100
42) Bromodichloromethane	7.98	83	2588619	10.47	ppbv	96
43) Methyl Methacrylate	8.20	69	1483030	11.96	ppbv	99

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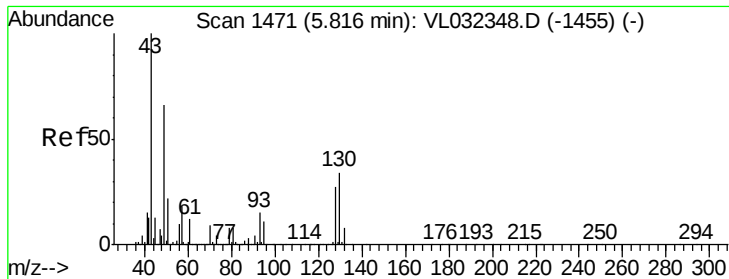
Manual Integrations
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Quant Time: Aug 28 13:51:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 28 2018
 QLast Update : Tue Aug 28 13:07:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.05	57	5631872	10.04	ppbv	99
45) t-1,3-Dichloropropene	9.48	75	1856043	11.83	ppbv	99
46) cis-1,3-Dichloropropene	8.90	75	2186462	11.62	ppbv	95
47) 1,1,2-Trichloroethane	9.68	97	1236739	8.64	ppbv	95
48) Dibromochloromethane	10.52	129	1980234	10.35	ppbv	99
49) Bromoform	13.28	173	1624549	10.22	ppbv	100
50) 4-Methyl-2-Pentanone	8.94	43	3764418	10.43	ppbv	100
51) 2-Hexanone	10.34	43	2793458	11.02	ppbv #	99
52) Tetrachloroethene	11.44	164	917594	10.00	ppbv	98
53) Toluene	10.02	91	3521850	10.32	ppbv	99
54) 1,2-Dibromoethane	10.83	107	1851786	10.08	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.35	131	1412254	9.53	ppbv #	58
57) Chlorobenzene	12.37	112	2545982	9.44	ppbv	95
58) Ethyl Benzene	12.94	91	4748074	11.02	ppbv	98
59) m/p-Xylene	13.22	91	7657722m	20.92	ppbv	
60) o-Xylene	13.92	91	3694096	10.27	ppbv	99
61) Styrene	13.76	104	2859718	11.37	ppbv	98
62) Isopropylbenzene	14.90	105	5261161	10.27	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.91	83	2772528	9.16	ppbv	100
64) n-propylbenzene	15.79	120	1390903	10.49	ppbv	93
65) tert-Butylbenzene	16.98	119	4286287	9.80	ppbv	99
66) Benzyl Chloride	17.23	91	2883996	11.13	ppbv	98
67) sec-Butylbenzene	17.53	105	6458539	9.93	ppbv	99
69) p-Isopropyltoluene	17.88	119	5411778	10.87	ppbv	99
70) n-Butylbenzene	18.78	91	5912138	10.83	ppbv	99
71) 2-Chlorotoluene	15.69	91	4355730	10.99	ppbv	99
72) 4-Ethyltoluene	16.07	105	4511789	11.24	ppbv	99
73) 1,3,5-Trimethylbenzene	16.22	105	4280876	11.09	ppbv	97
74) 1,2,4-Trimethylbenzene	17.00	105	4056141	9.88	ppbv	98
75) 1,3-Dichlorobenzene	17.24	146	2241957	9.08	ppbv	99
76) 1,4-Dichlorobenzene	17.38	146	2295149	9.82	ppbv	99
77) 1,2-Dichlorobenzene	18.06	146	2351294	9.97	ppbv	99
78) Hexachloro-1,3-Butadiene	23.60	225	779667	9.85	ppbv	99
79) Naphthalene	22.49	128	4085037	13.63	ppbv	99
80) Naphthalene, 2-methyl-	25.16	142	1647223	20.10	ppbv	99
81) 1,2,4-Trichlorobenzene	22.22	180	1873543	11.80	ppbv	98

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.82 min Scan# 1471

Delta R.T. 0.00 min

Lab File: VL032381.D

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Instrument :

MSVOA_L

ClientSampleId :

VL0816ABSD01

Tot Ion: 49 Resp: 1623691

Ion Ratio Lower Upper

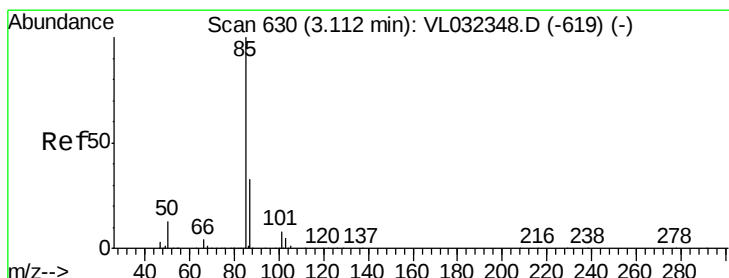
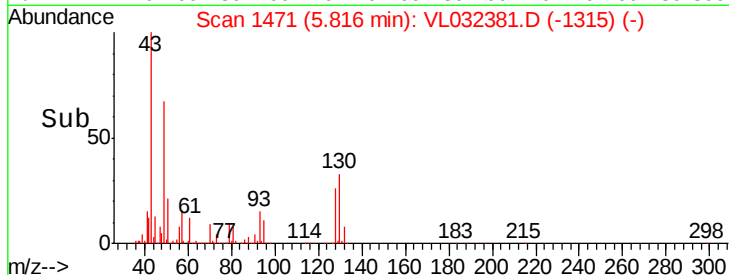
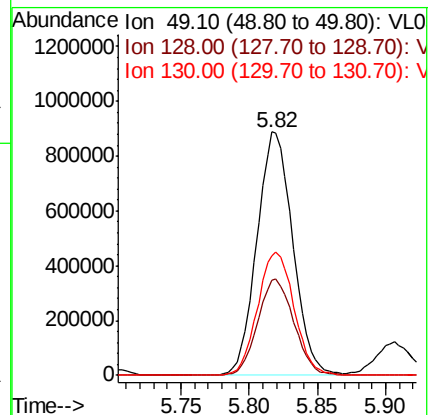
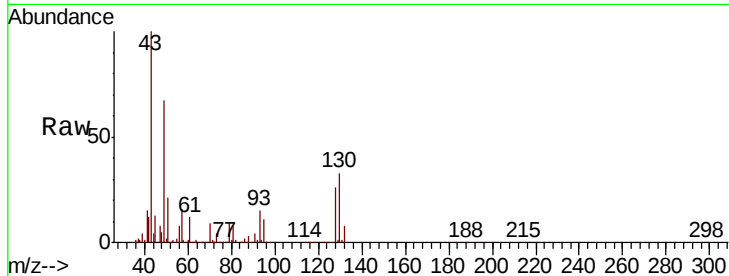
49 100

128 39.8 20.5 61.6

130 51.8 26.2 78.5

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#2

Dichlorodifluoromethane

Concen: 9.58 ppbv

RT: 3.11 min Scan# 630

Delta R.T. 0.00 min

Lab File: VL032381.D

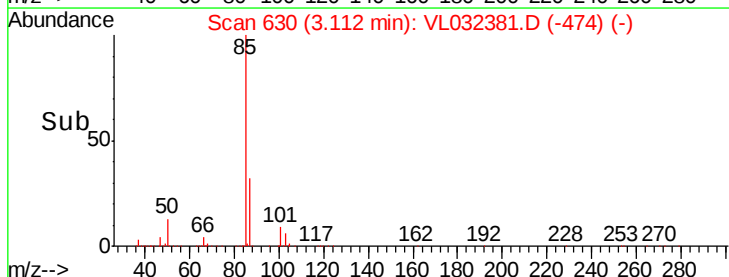
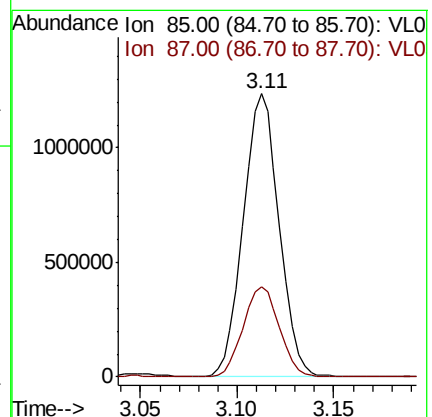
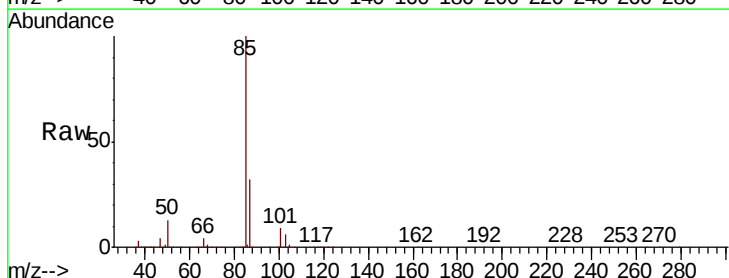
Acq: 16 Aug 2018 17:41

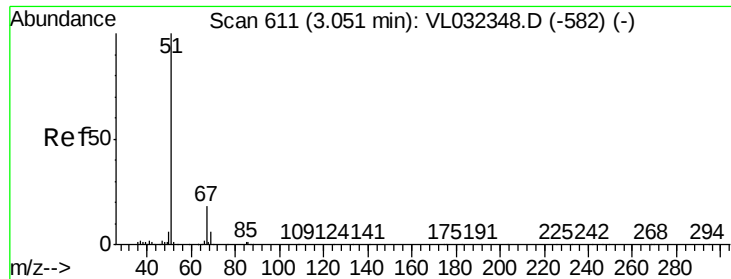
Tgt Ion: 85 Resp: 1585761

Ion Ratio Lower Upper

85 100

87 32.1 26.3 39.5





#3

Chlorodifluoromethane

Concen: 9.86 ppbv

RT: 3.05 min Scan# 610

Delta R.T. -0.00 min

Lab File: VL032381.D

Acq: 16 Aug 2018 17:41

Instrument :

MSVOA_L

ClientSampleId :

VL0816ABSD01

Tot Ion: 51 Resp: 1483456

Ion Ratio Lower Upper

51 100

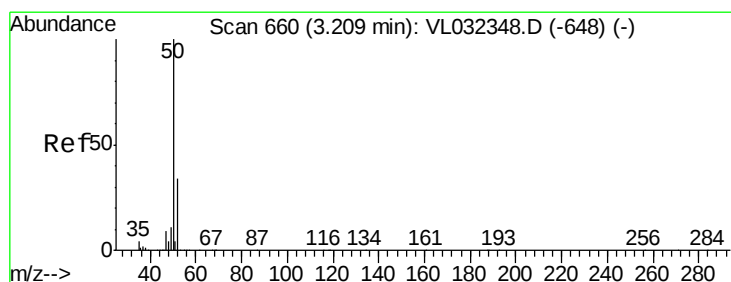
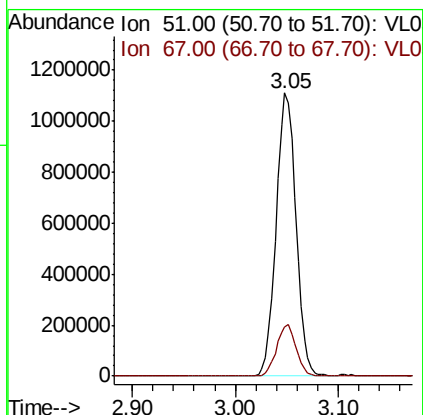
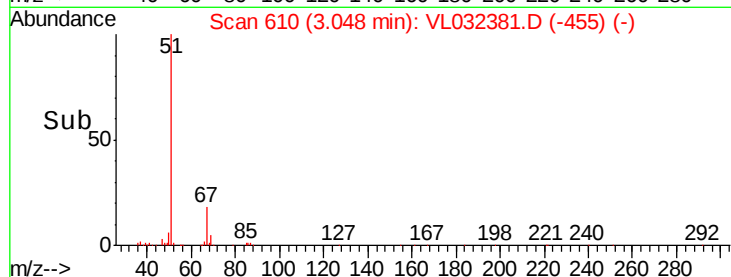
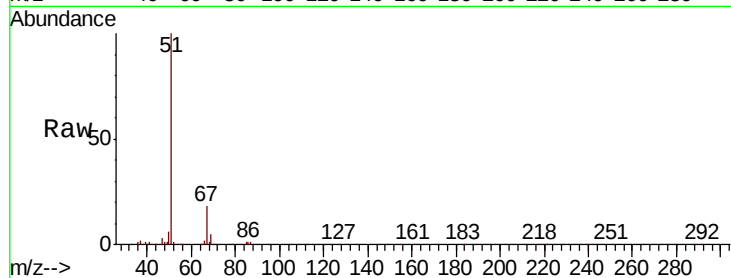
67 17.9 13.7 20.5

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#4

Chloromethane

Concen: 9.83 ppbv

RT: 3.21 min Scan# 660

Delta R.T. 0.00 min

Lab File: VL032381.D

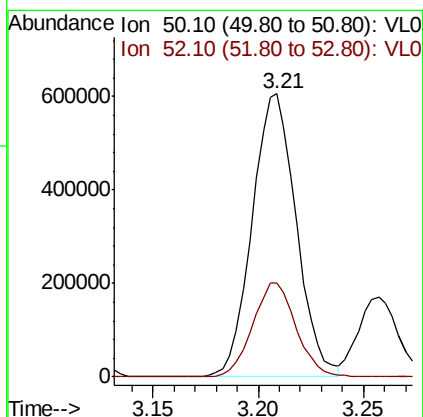
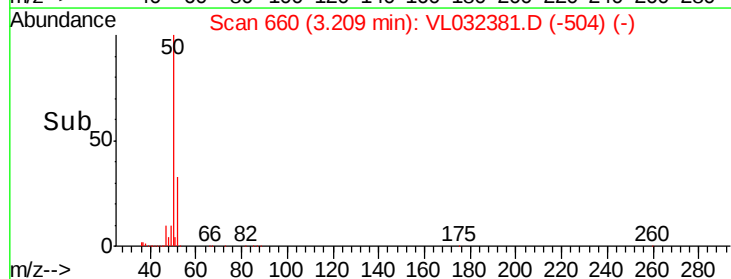
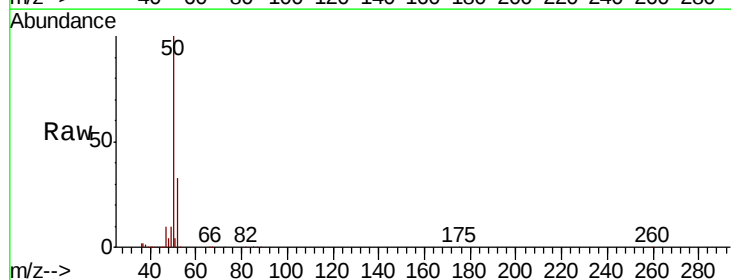
Acq: 16 Aug 2018 17:41

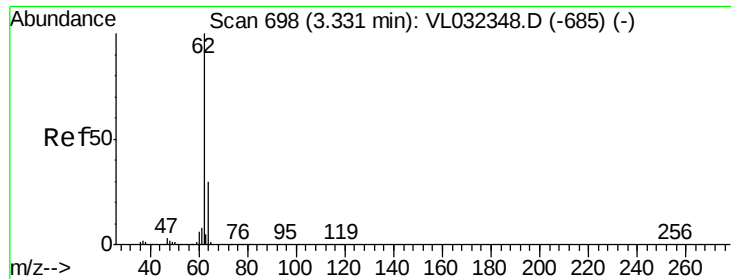
Tgt Ion: 50 Resp: 879888

Ion Ratio Lower Upper

50 100

52 33.4 26.8 40.2





#5

Vinyl Chloride

Concen: 10.00 ppbv

RT: 3.33 min Scan# 698

Delta R.T. 0.00 min

Lab File: VL032381.D

Acq: 16 Aug 2018 17:41

Instrument :

MSVOA_L

ClientSampleId :

VL0816ABSD01

Tot Ion: 62 Resp: 853706

Ion Ratio Lower Upper

62 100

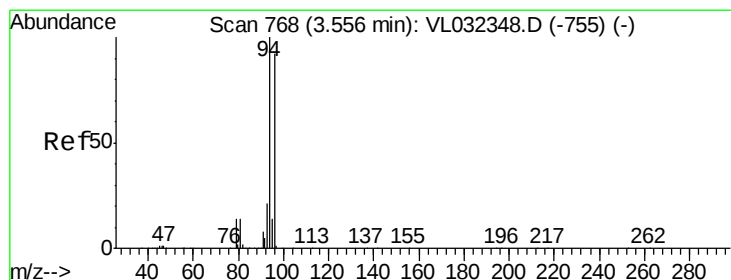
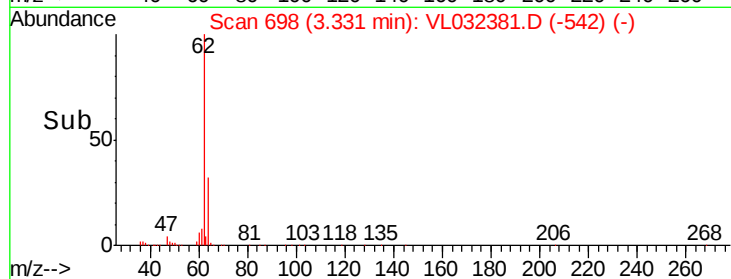
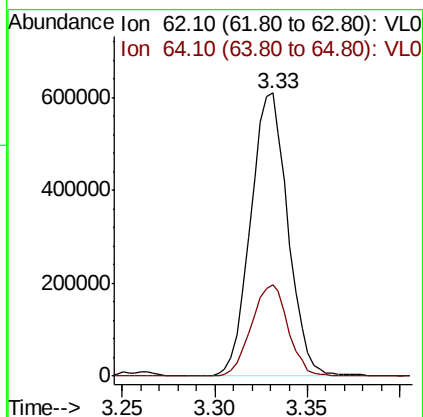
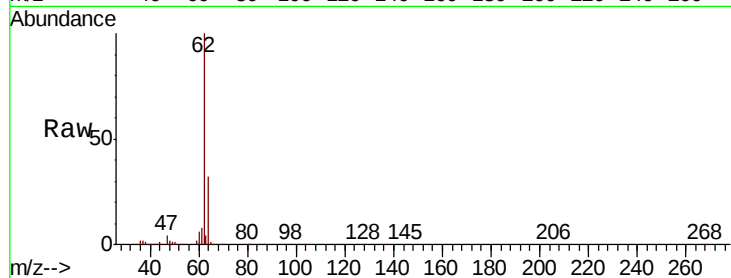
64 32.5 24.2 36.2

Manual Integrations

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#6

Bromomethane

Concen: 10.46 ppbv

RT: 3.55 min Scan# 767

Delta R.T. -0.00 min

Lab File: VL032381.D

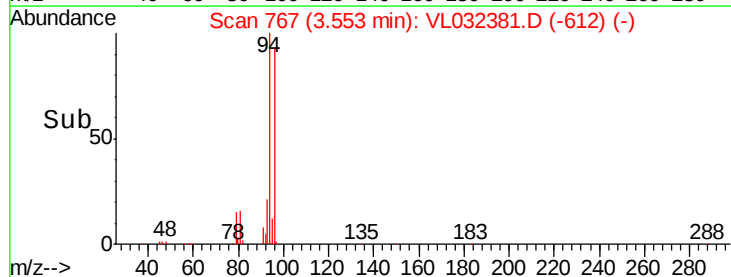
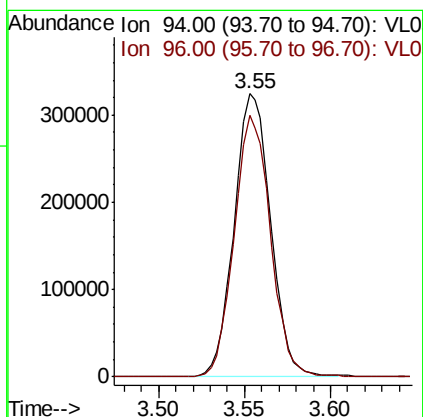
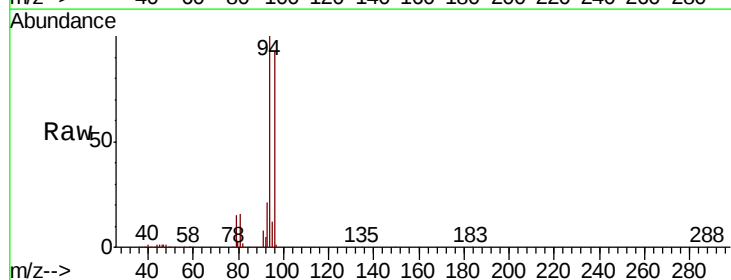
Acq: 16 Aug 2018 17:41

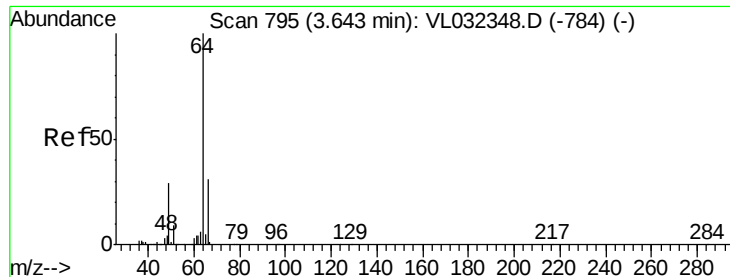
Tgt Ion: 94 Resp: 478345

Ion Ratio Lower Upper

94 100

96 92.5 73.7 110.5





#7

Chloroethane

Concen: 10.16 ppbv

RT: 3.64 min Scan# 794

Delta R.T. -0.00 min

Lab File: VL032381.D

Acq: 16 Aug 2018 17:41

Instrument :

MSVOA_L

ClientSampleId :

VL0816ABSD01

Tot Ion: 64 Resp: 304009

Ion Ratio Lower Upper

64 100

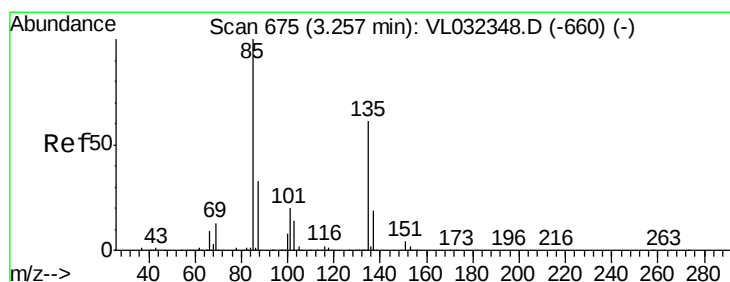
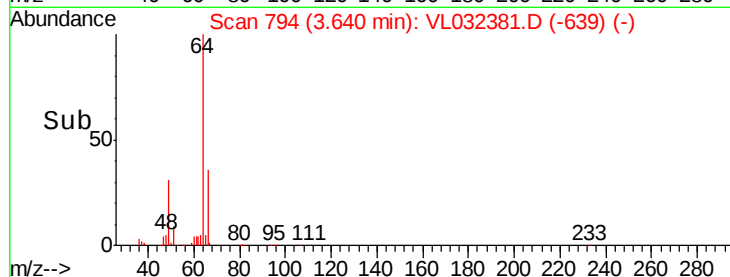
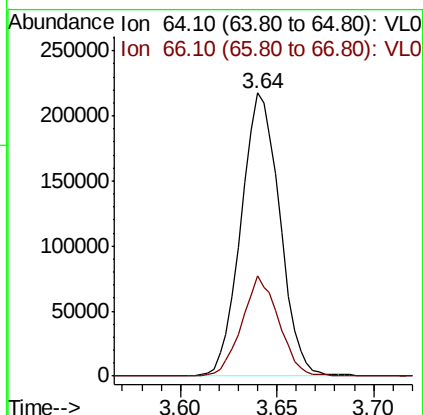
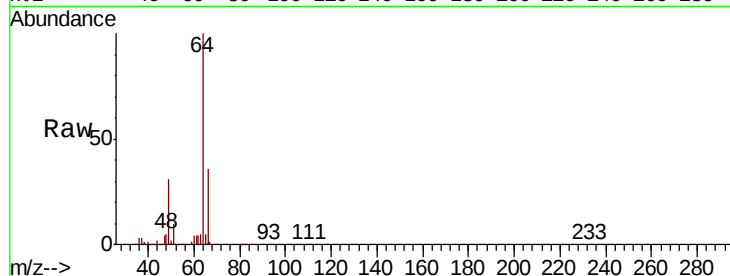
66 35.6 24.6 36.8

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 9.92 ppbv

RT: 3.26 min Scan# 675

Delta R.T. 0.00 min

Lab File: VL032381.D

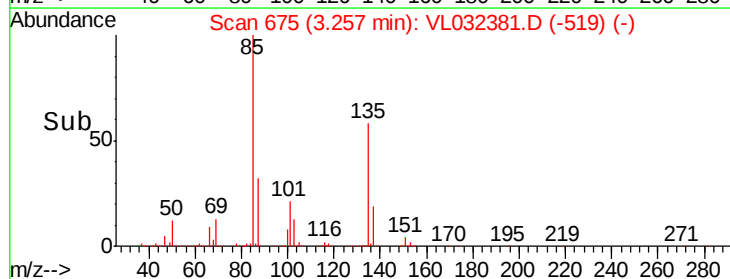
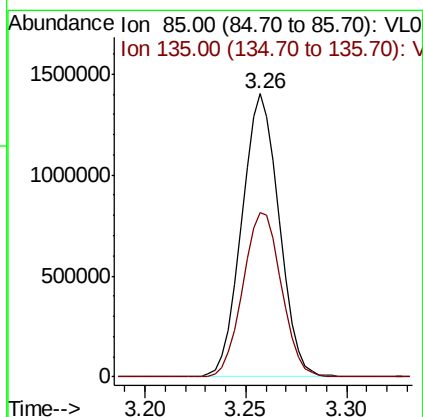
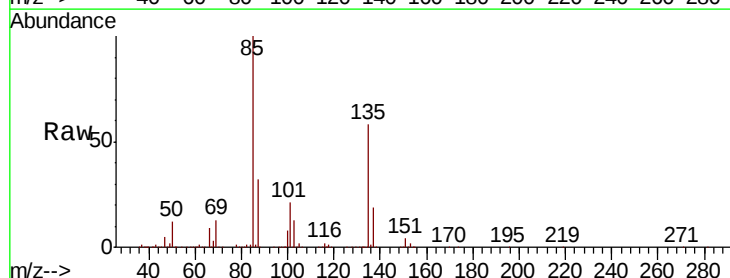
Acq: 16 Aug 2018 17:41

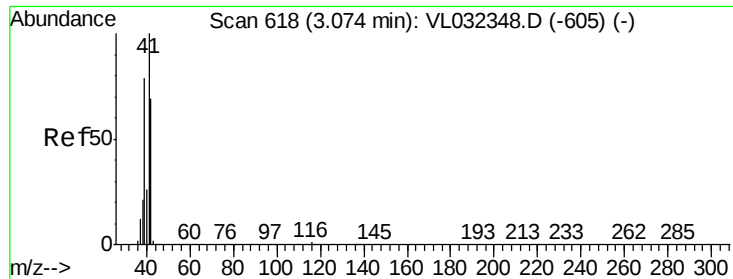
Tgt Ion: 85 Resp: 1819256

Ion Ratio Lower Upper

85 100

135 60.2 49.0 73.6





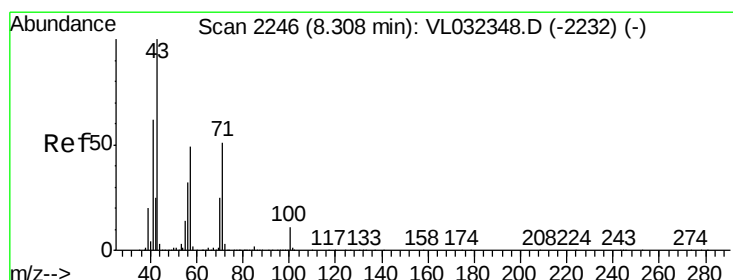
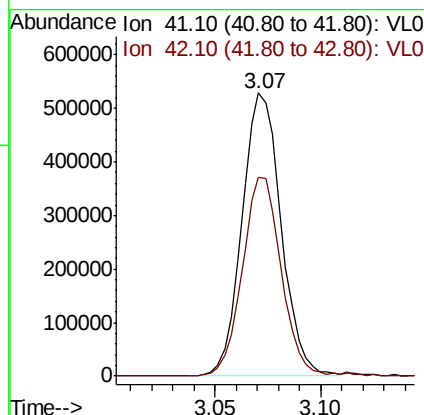
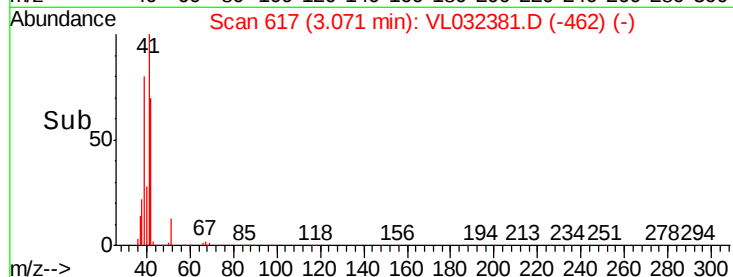
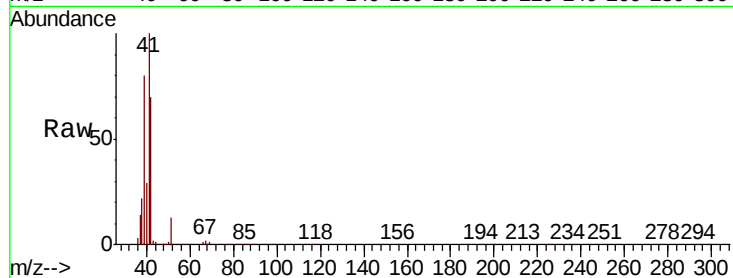
#9
 Propene
 Concen: 10.57 ppbv
 RT: 3.07 min Scan# 617
 Delta R.T. -0.00 min
 Lab File: VL032381.D
 Acq: 16 Aug 2018 17:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0816ABSD01

Tot Ion: 41 Resp: 680726
 Ion Ratio Lower Upper
 41 100
 42 70.4 55.9 83.9

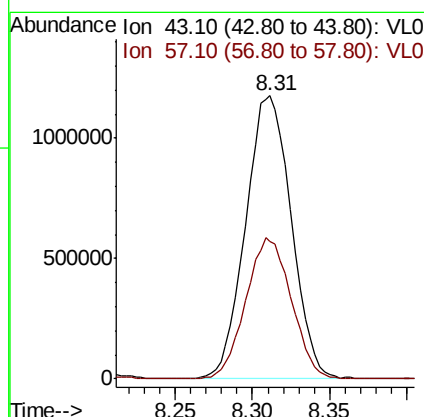
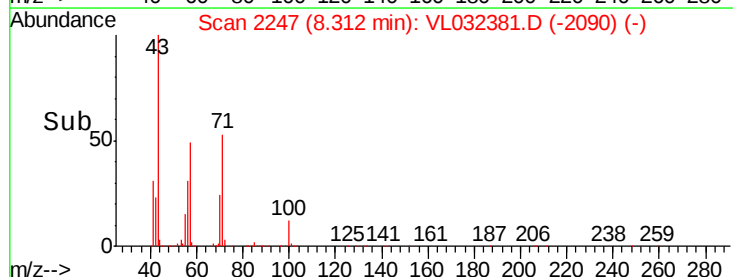
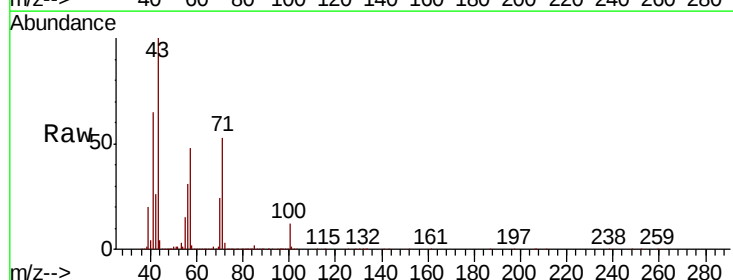
Manual Integrations
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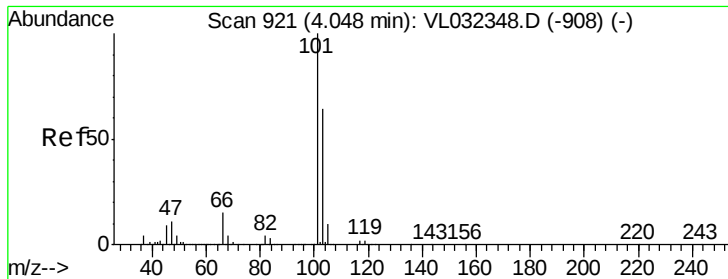
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#10
 Heptane
 Concen: 12.37 ppbv
 RT: 8.31 min Scan# 2247
 Delta R.T. 0.00 min
 Lab File: VL032381.D
 Acq: 16 Aug 2018 17:41

Tgt Ion: 43 Resp: 2398647
 Ion Ratio Lower Upper
 43 100
 57 49.7 39.5 59.3





#11

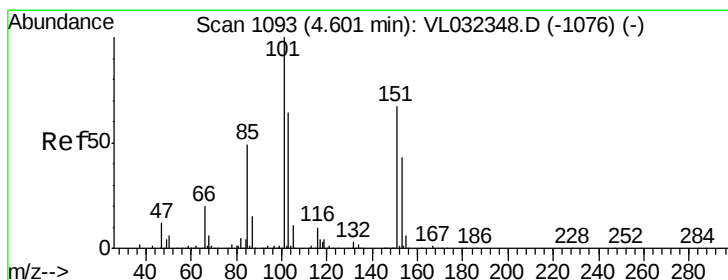
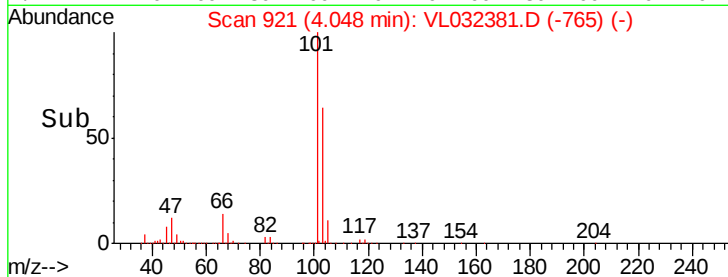
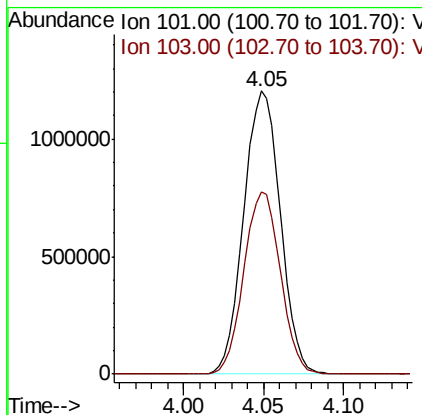
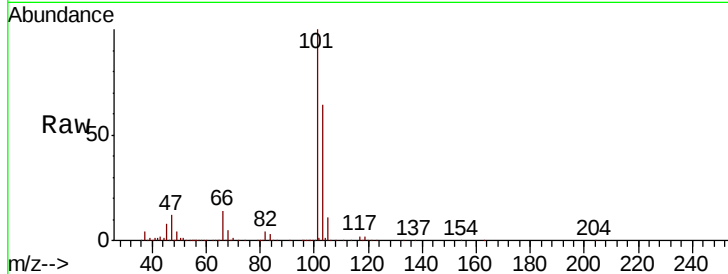
Trichlorofluoromethane
Concen: 10.35 ppbv
RT: 4.05 min Scan# 921
Delta R.T. 0.00 min
Lab File: VL032381.D
Acq: 16 Aug 2018 17:41

Instrument :
MSVOA_L
ClientSampleId :
VL0816ABSD01

Tot Ion:101 Resp: 1880231
Ion Ratio Lower Upper
101 100
103 64.2 51.4 77.0

Manual Integrations
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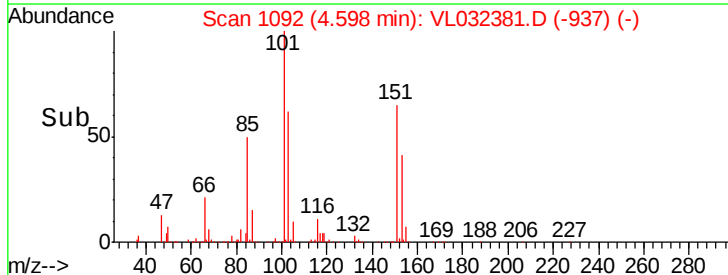
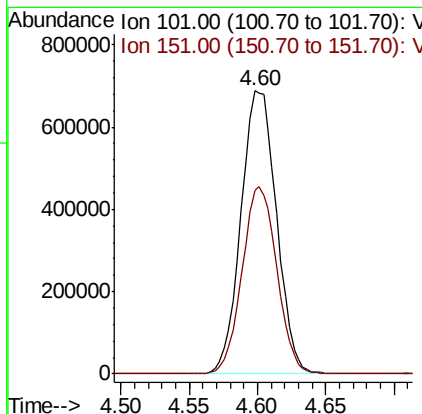
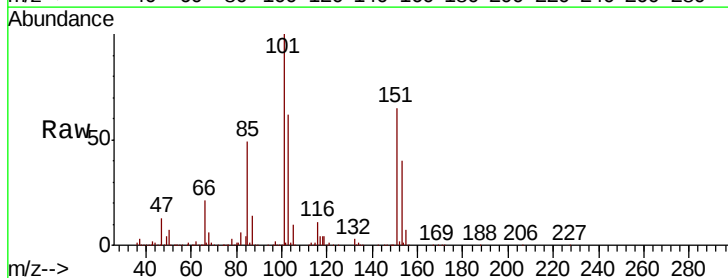
MMDadoda
8/28/2018 2:53:00 PM

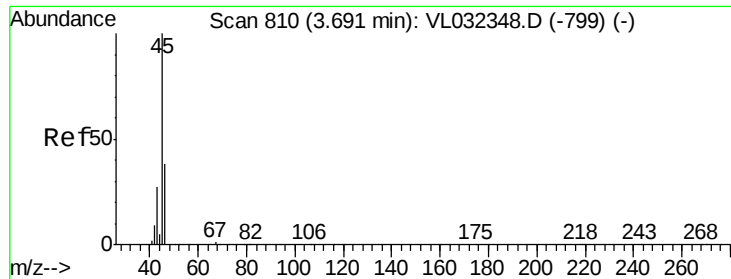


#12

1,1,2-Trichlorotrifluoroethane
Concen: 10.17 ppbv
RT: 4.60 min Scan# 1092
Delta R.T. -0.00 min
Lab File: VL032381.D
Acq: 16 Aug 2018 17:41

Tgt Ion:101 Resp: 1243514
Ion Ratio Lower Upper
101 100
151 65.0 53.1 79.7





#13

Ethanol

Concen: 11.51 ppbv

RT: 3.69 min Scan# 810

Delta R.T. 0.00 min

Lab File: VL032381.D

Acq: 16 Aug 2018 17:41

Instrument :

MSVOA_L

ClientSampleId :

VL0816ABSD01

Tot Ion: 45 Resp: 190271

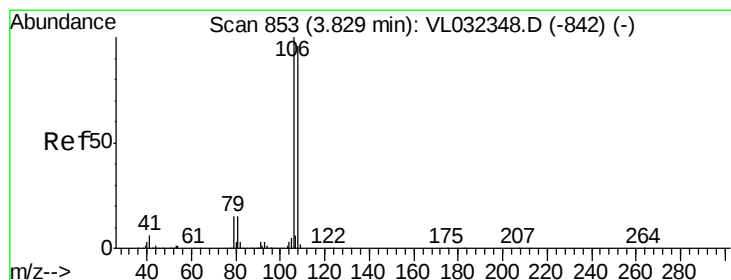
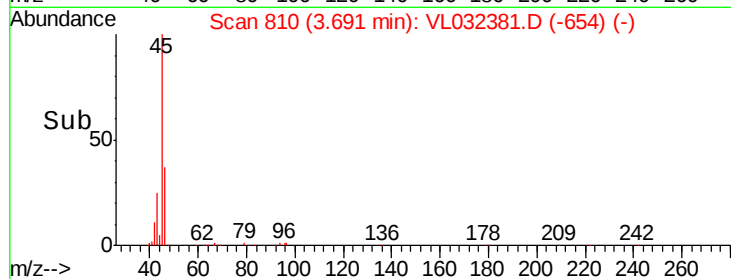
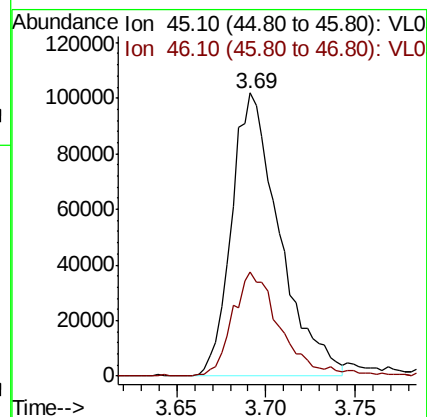
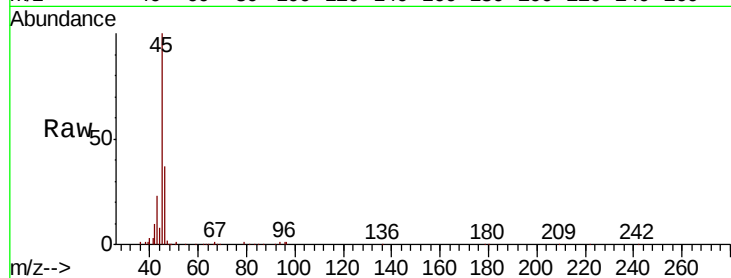
Ion Ratio Lower Upper

45 100

46 37.6 15.6 62.4

Manual Integrations
APPROVED

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#14

Bromoethene

Concen: 10.58 ppbv

RT: 3.83 min Scan# 853

Delta R.T. 0.00 min

Lab File: VL032381.D

Acq: 16 Aug 2018 17:41

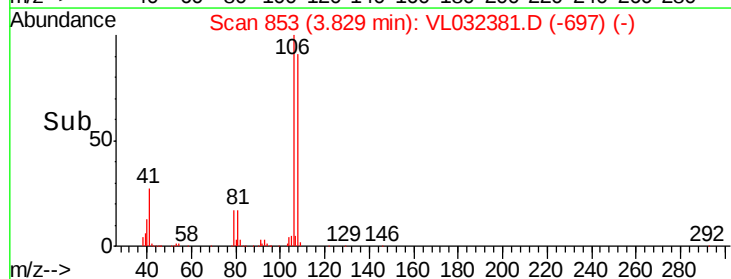
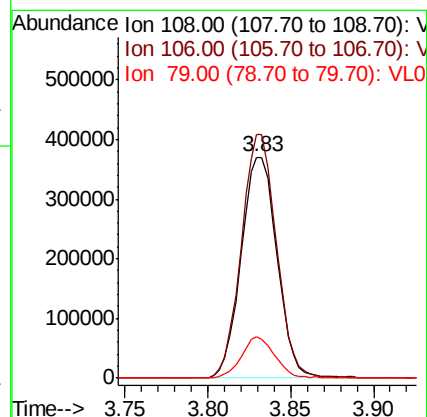
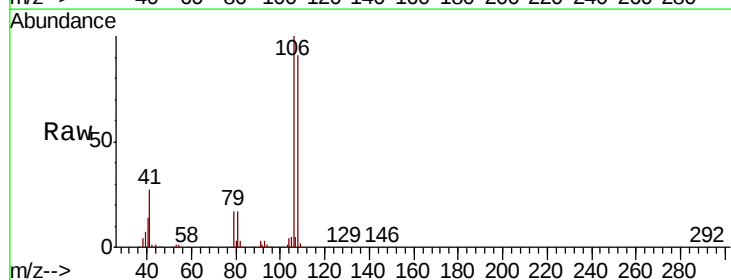
Tgt Ion: 108 Resp: 559301

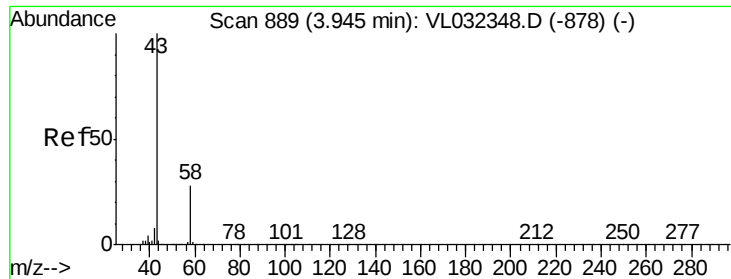
Ion Ratio Lower Upper

108 100

106 107.5 85.7 128.5

79 17.6 13.1 19.7





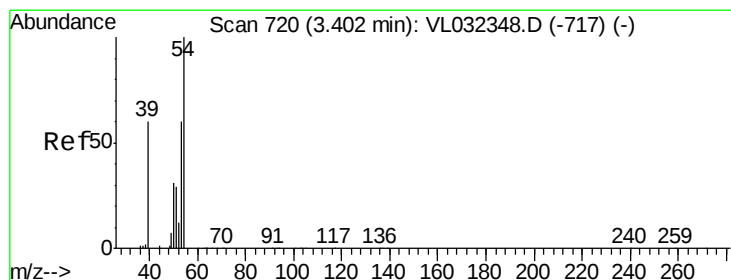
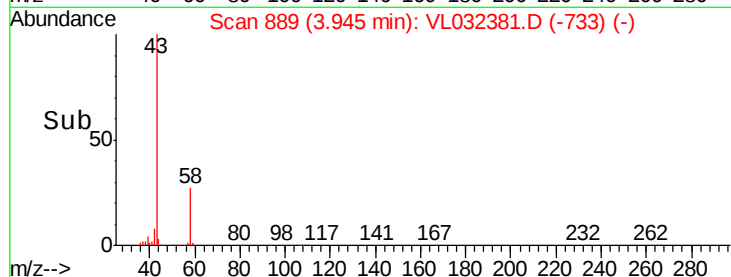
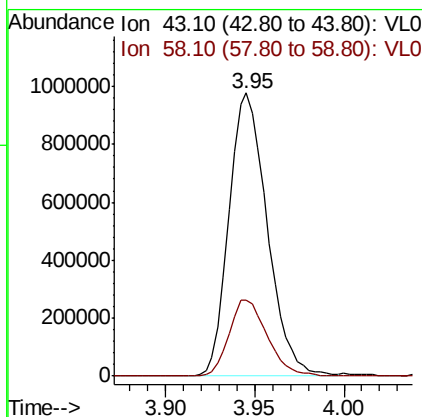
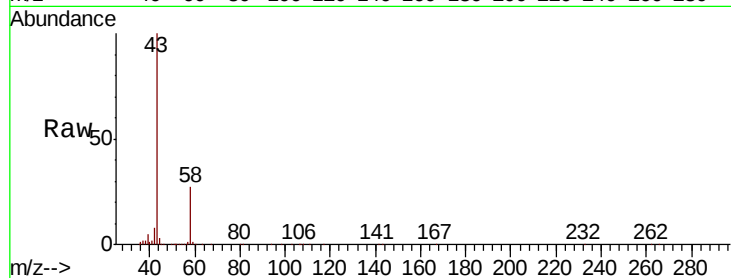
#15
Acetone
Concen: 9.41 ppbv
RT: 3.95 min Scan# 889
Delta R.T. 0.00 min
Lab File: VL032381.D
Acq: 16 Aug 2018 17:41

Instrument :
MSVOA_L
ClientSampleId :
VL0816ABSD01

Tot Ion: 43 Resp: 1451603
Ion Ratio Lower Upper
43 100
58 27.1 22.4 33.6

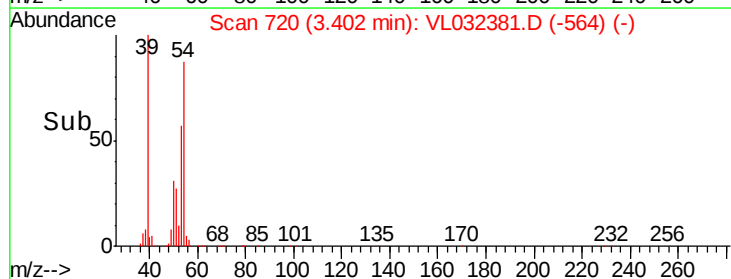
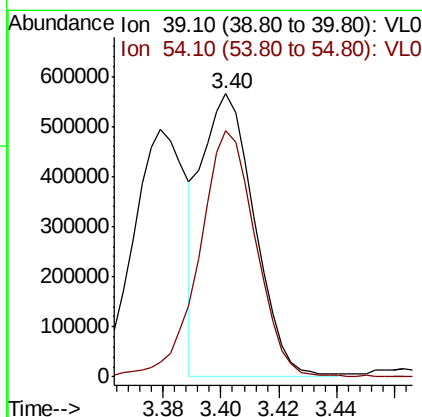
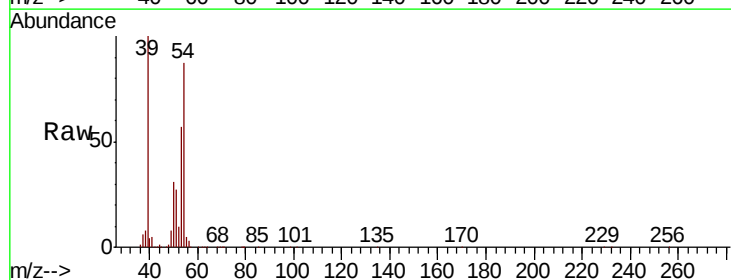
Manual Integrations
APPROVED

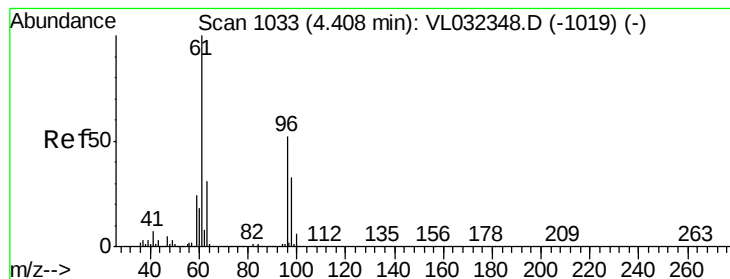
MMDadoda
8/28/2018 2:53:00 PM



#16
1,3-Butadiene
Concen: 11.25 ppbv
RT: 3.40 min Scan# 720
Delta R.T. 0.00 min
Lab File: VL032381.D
Acq: 16 Aug 2018 17:41

Tgt Ion: 39 Resp: 716667
Ion Ratio Lower Upper
39 100
54 93.4 85.5 128.3





#17

tert-Butyl alcohol

Concen: 11.64 ppbv

RT: 4.40 min Scan# 1032

Delta R.T. -0.00 min

Lab File: VL032381.D

Acq: 16 Aug 2018 17:41

Instrument :

MSVOA_L

ClientSampleId :

VL0816ABSD01

Tot Ion: 59 Resp: 301232

Ion Ratio Lower Upper

59 100

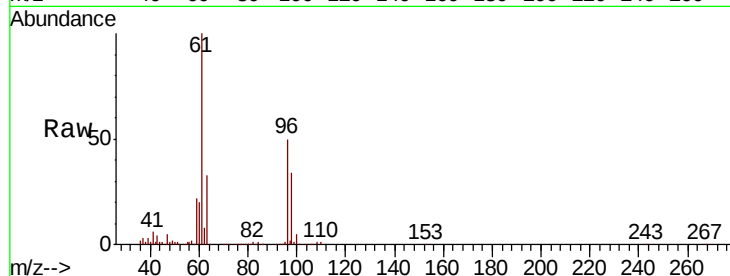
57 8.6 7.6 11.4

Manual Integrations

APPROVED

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8/28/2018 2:53:00 PM



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.40

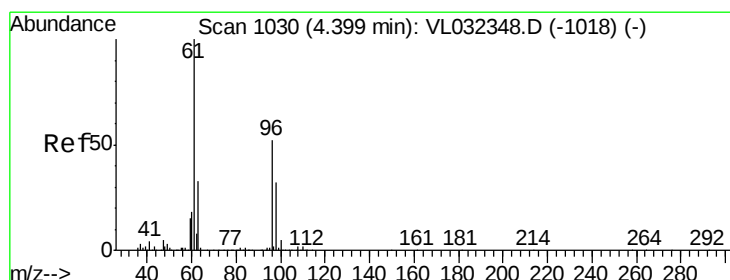
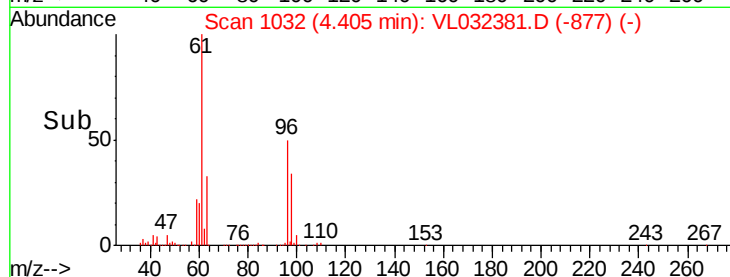
150000

100000

50000

0

Time-->



#18

1,1-Dichloroethene

Concen: 10.40 ppbv

RT: 4.40 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VL032381.D

Acq: 16 Aug 2018 17:41

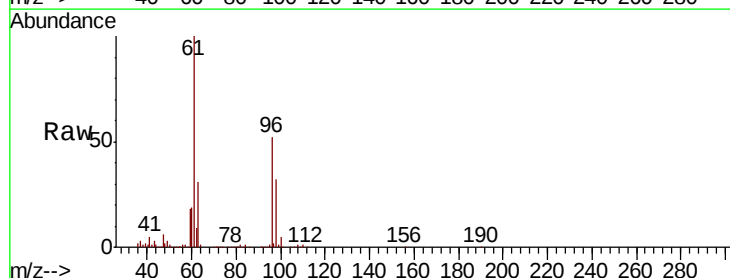
Tgt Ion: 96 Resp: 592536

Ion Ratio Lower Upper

96 100

61 193.8 154.6 231.8

98 62.0 50.1 75.1



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

1000000

800000

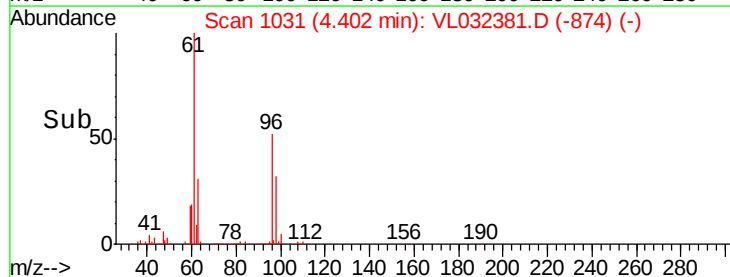
600000

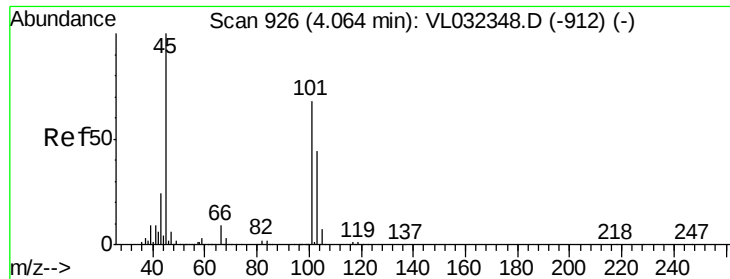
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200000

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Time-->





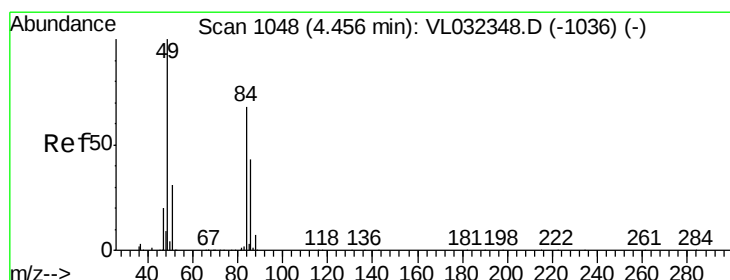
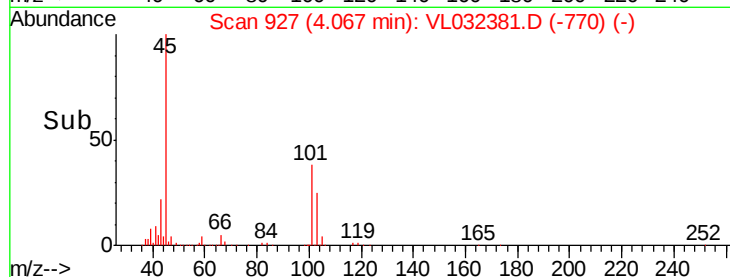
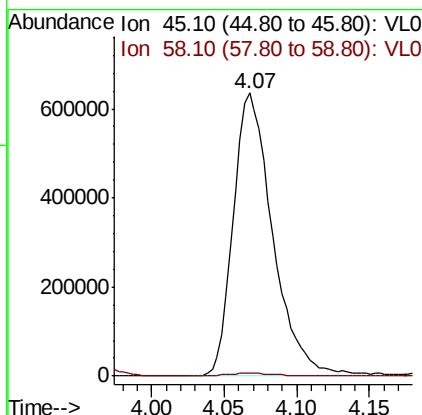
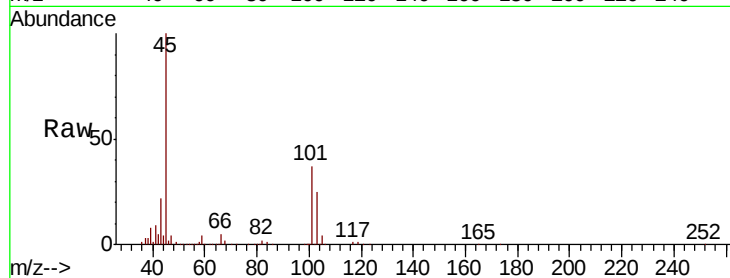
#19
Isopropyl Alcohol
Concen: 11.50 ppbv
RT: 4.07 min Scan# 927
Delta R.T. 0.00 min
Lab File: VL032381.D
Acq: 16 Aug 2018 17:41

Instrument :
MSVOA_L
ClientSampleId :
VL0816ABSD01

Tot Ion: 45 Resp: 1194606
Ion Ratio Lower Upper
45 100
58 1.4 1.4 2.0#

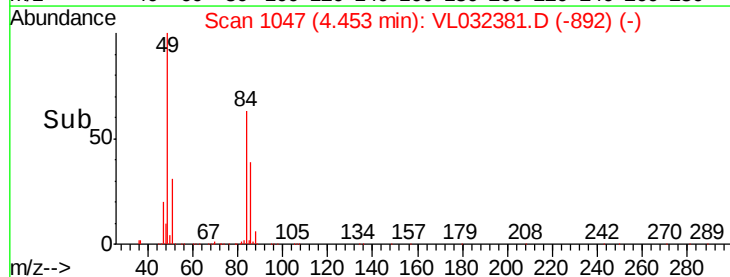
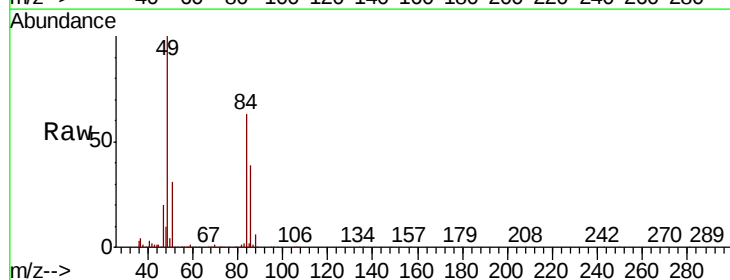
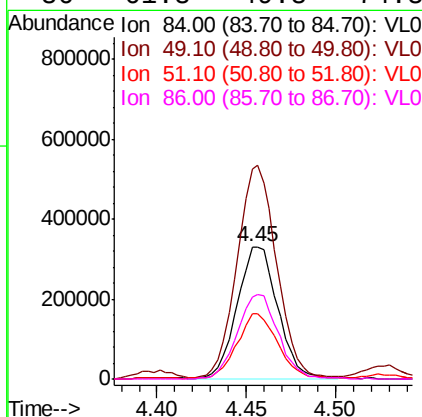
Manual Integrations
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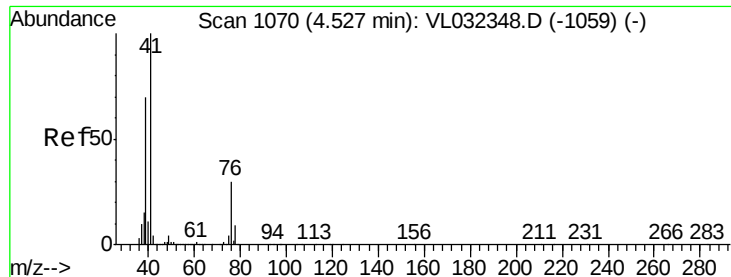
MMDadoda
8/28/2018 2:53:00 PM



#20
Methylene Chloride
Concen: 8.96 ppbv
RT: 4.45 min Scan# 1047
Delta R.T. -0.00 min
Lab File: VL032381.D
Acq: 16 Aug 2018 17:41

Tgt Ion: 84 Resp: 521798
Ion Ratio Lower Upper
84 100
49 158.6 117.3 175.9
51 48.9 36.6 55.0
86 61.8 49.8 74.8





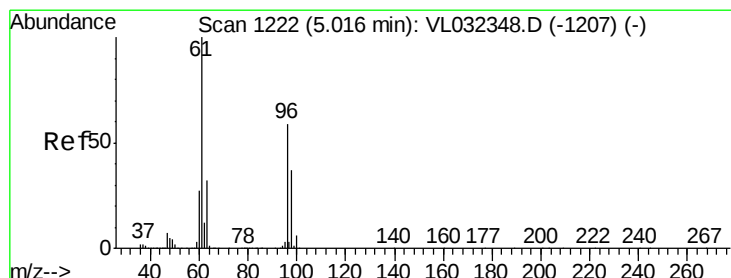
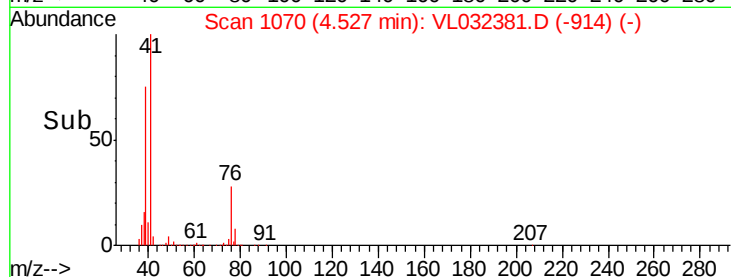
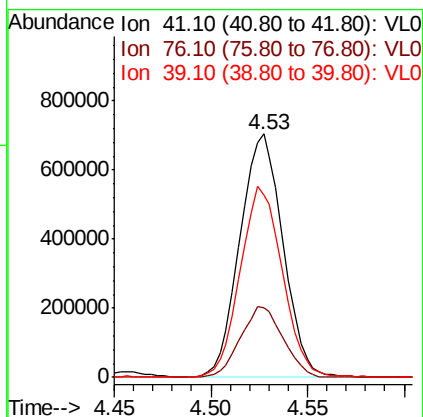
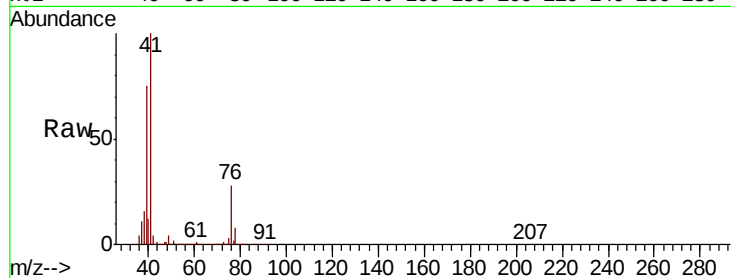
#21
Allvl Chloride
Concen: 11.12 ppbv
RT: 4.53 min Scan# 1070
Delta R.T. 0.00 min
Lab File: VL032381.D
Acq: 16 Aug 2018 17:41

Instrument :
MSVOA_L
ClientSampleId :
VL0816ABSD01

Tot Ion	Ratio	Lower	Upper
41	100		
76	29.2	22.9	34.3
39	77.7	57.6	86.4

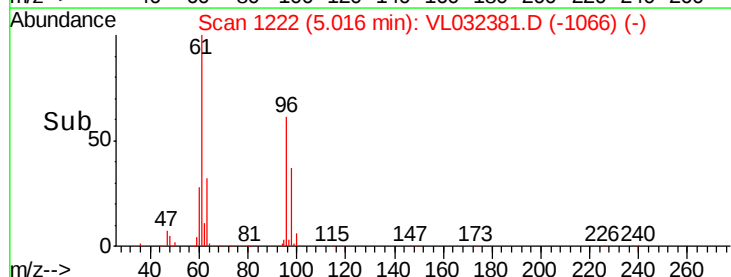
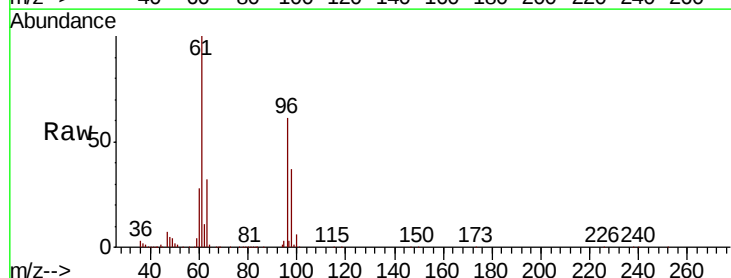
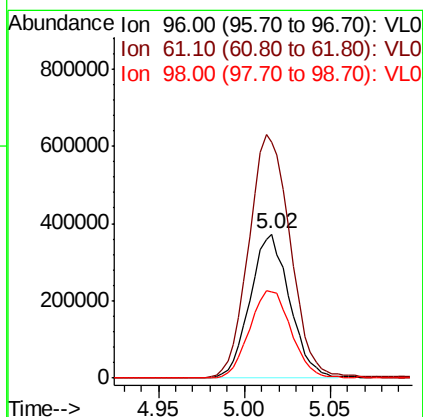
Manual Integrations
APPROVED

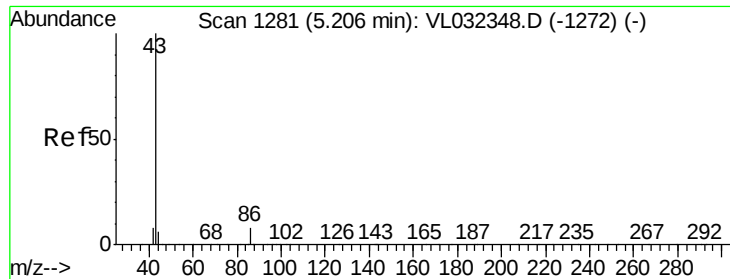
MMDadoda
8/28/2018 2:53:00 PM



#22
trans-1,2-Dichloroethene
Concen: 10.38 ppbv
RT: 5.02 min Scan# 1222
Delta R.T. 0.00 min
Lab File: VL032381.D
Acq: 16 Aug 2018 17:41

Tgt Ion	Ratio	Lower	Upper
96	100		
61	164.1	136.6	205.0
98	60.2	50.6	76.0





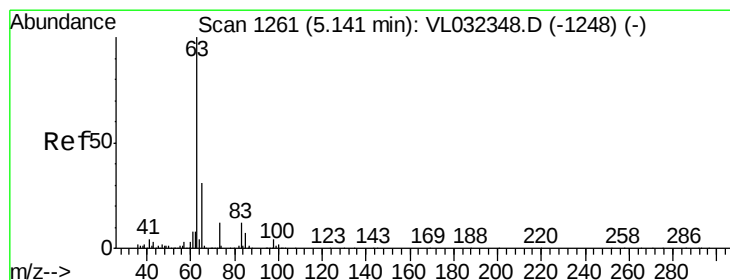
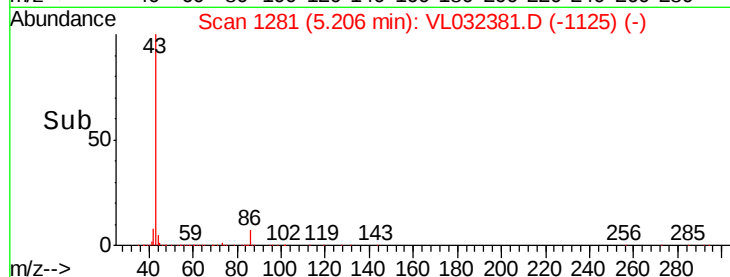
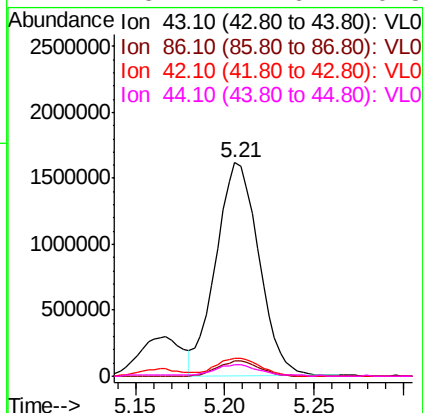
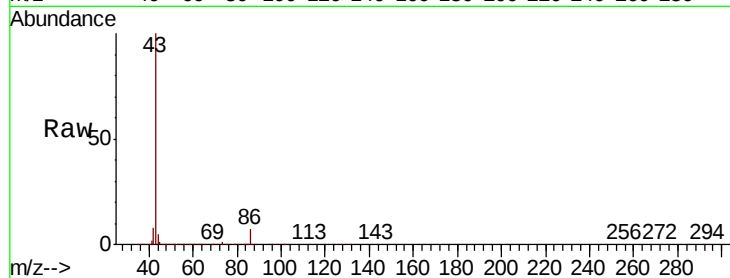
#23
 Vinyl Acetate
 Concen: 10.13 ppbv
 RT: 5.21 min Scan# 1281
 Delta R.T. 0.00 min
 Lab File: VL032381.D
 Acq: 16 Aug 2018 17:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0816ABSD01

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
86	7.4	5.5	8.3	
42	8.4	7.0	10.6	
44	5.2	4.6	6.8	

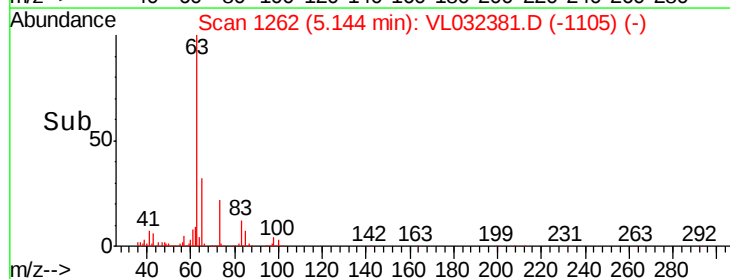
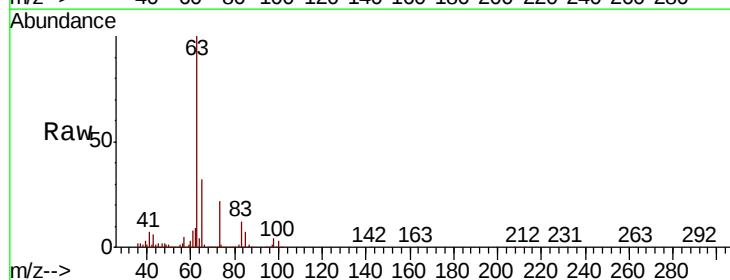
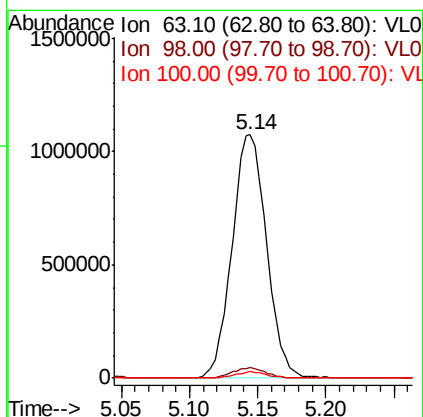
Manual Integrations
 APPROVED

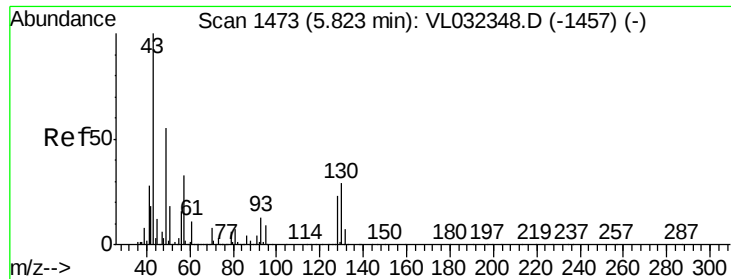
MMDadoda
 8/28/2018 2:53:00 PM



#24
 1,1-Dichloroethane
 Concen: 9.77 ppbv
 RT: 5.14 min Scan# 1262
 Delta R.T. 0.00 min
 Lab File: VL032381.D
 Acq: 16 Aug 2018 17:41

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





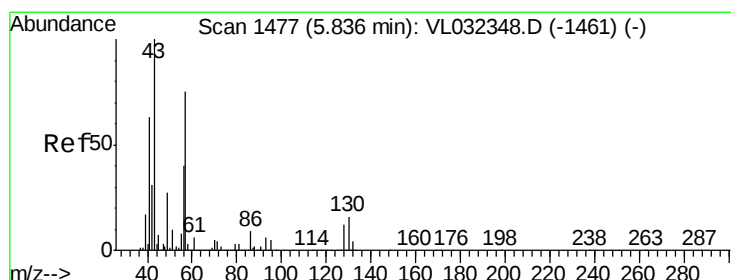
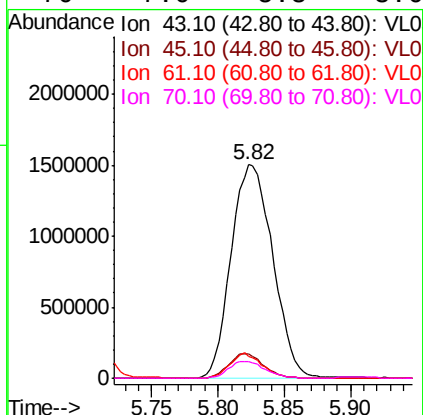
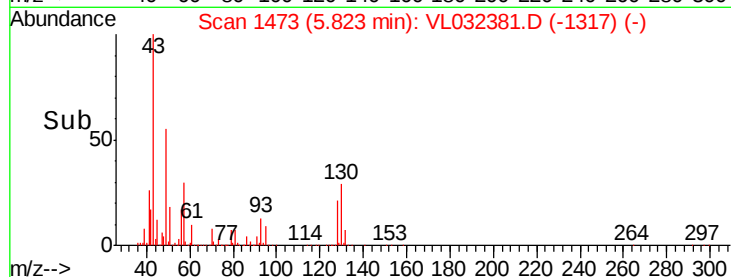
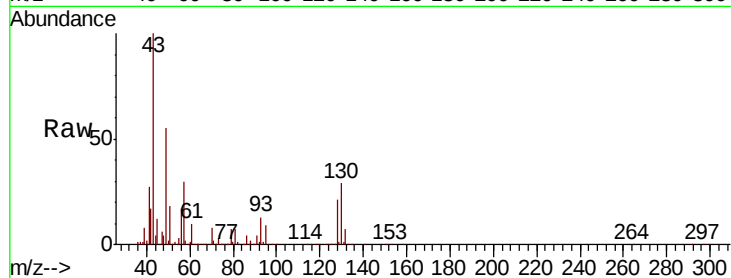
#25
Ethyl Acetate
Concen: 9.92 ppbv
RT: 5.82 min Scan# 1473
Delta R.T. 0.00 min
Lab File: VL032381.D
Acq: 16 Aug 2018 17:41

Instrument :
MSVOA_L
ClientSampleId :
VL0816ABSD01

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	9.8	7.9	11.9	
61	9.2	7.4	11.2	
70	7.0	5.8	8.6	

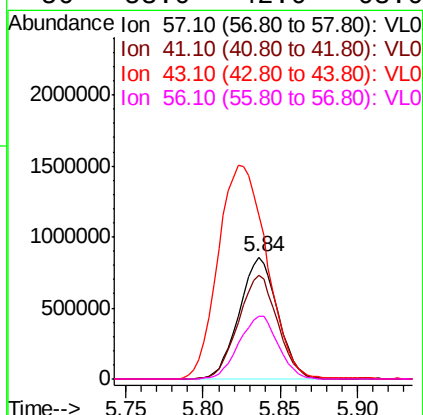
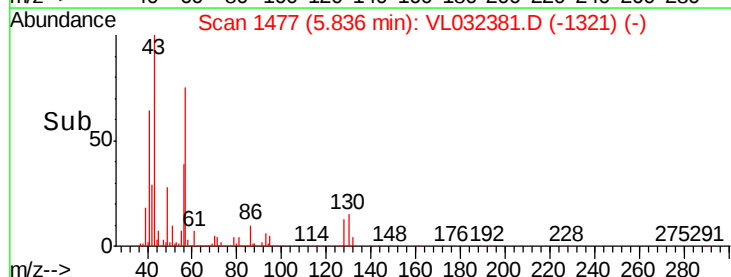
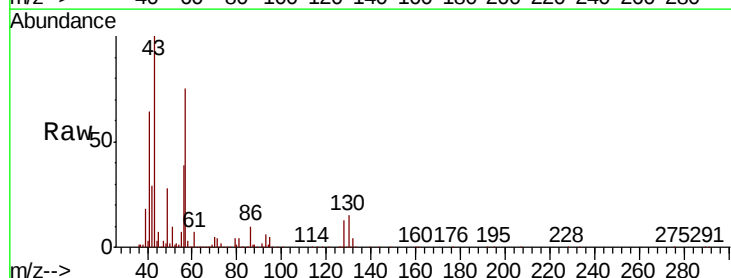
Manual Integrations
APPROVED

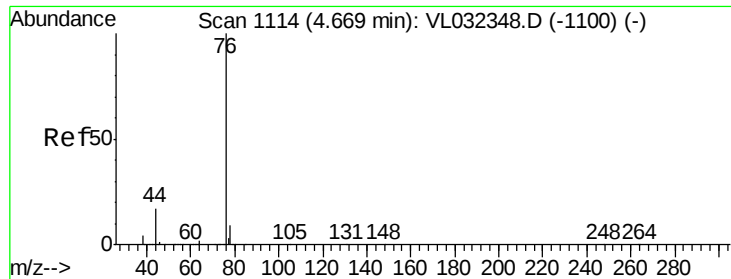
MMDadoda
8/28/2018 2:53:00 PM



#26
Hexane
Concen: 10.05 ppbv
RT: 5.84 min Scan# 1477
Delta R.T. 0.00 min
Lab File: VL032381.D
Acq: 16 Aug 2018 17:41

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	86.9	68.0	102.0	
43	222.5	175.3	262.9	
56	53.0	42.0	63.0	





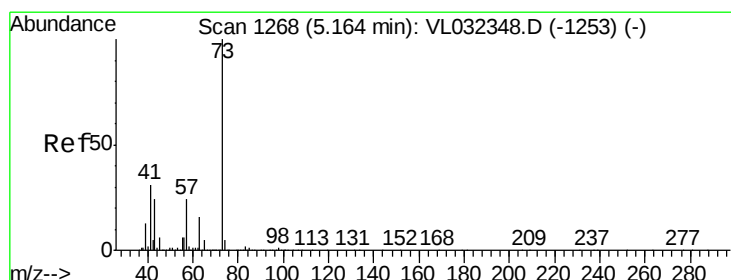
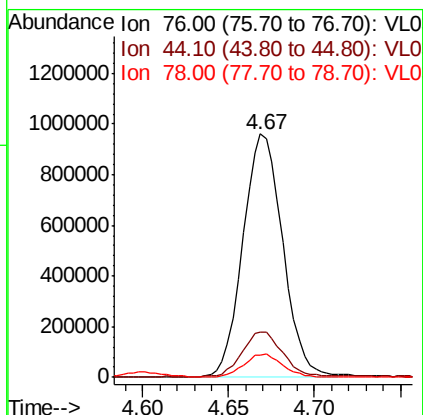
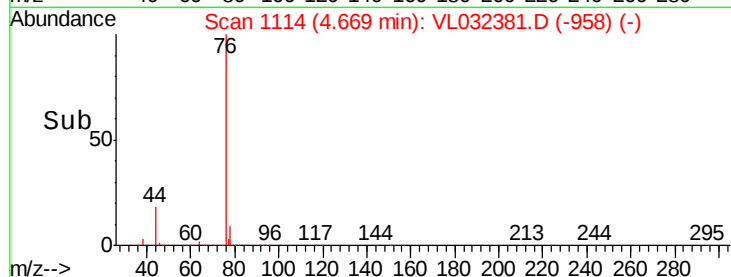
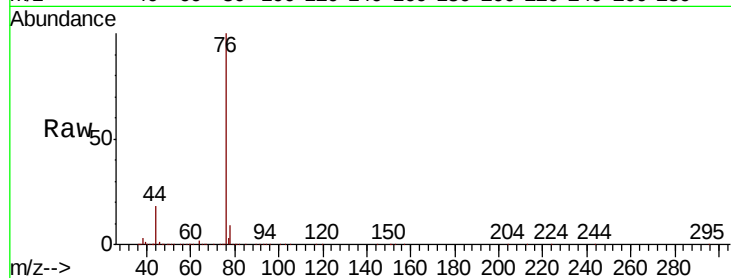
#27
Carbon Disulfide
Concen: 11.23 ppbv
RT: 4.67 min Scan# 1114
Delta R.T. 0.00 min
Lab File: VL032381.D
Acq: 16 Aug 2018 17:41

Instrument :
MSVOA_L
ClientSampleId :
VL0816ABSD01

Tot Ion	Ratio	Lower	Upper
76	100		
44	19.2	14.4	21.6
78	9.3	7.4	11.0

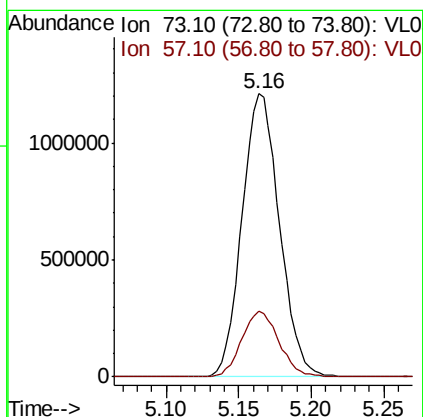
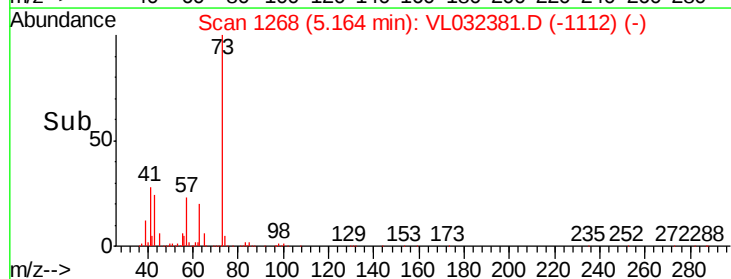
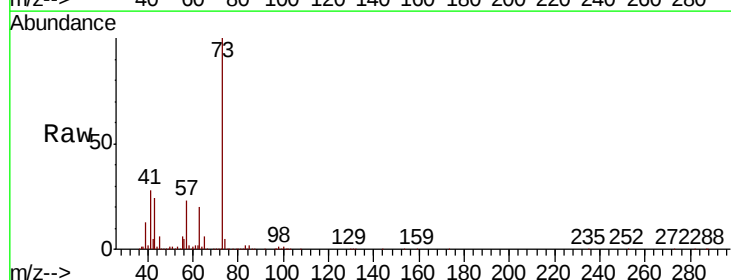
Manual Integrations
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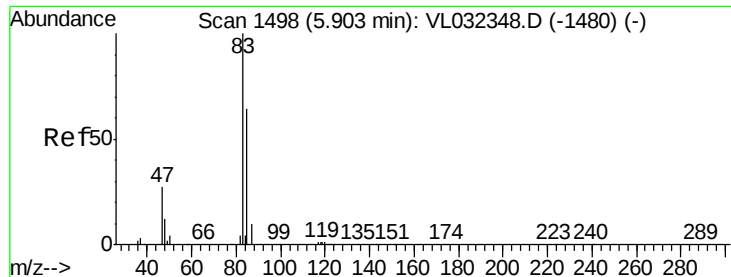
MMDadoda
8/28/2018 2:53:00 PM



#28
Methyl tert-Butyl Ether
Concen: 11.12 ppbv
RT: 5.16 min Scan# 1268
Delta R.T. 0.00 min
Lab File: VL032381.D
Acq: 16 Aug 2018 17:41

Tgt Ion	Ratio	Lower	Upper
73	100		
57	23.2	19.3	28.9





#29

Chloroform

Concen: 10.35 ppbv

RT: 5.91 min Scan# 1499

Delta R.T. 0.00 min

Lab File: VL032381.D

Acq: 16 Aug 2018 17:41

Instrument :

MSVOA_L

ClientSampleId :

VL0816ABSD01

Tot Ion: 83 Resp: 2235870

Ion Ratio Lower Upper

83 100

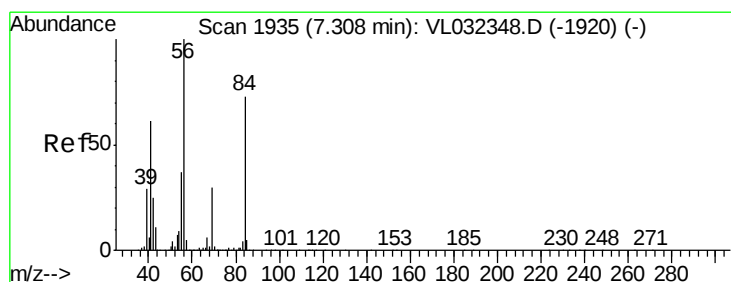
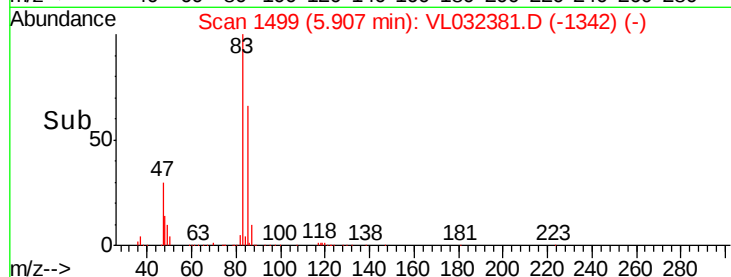
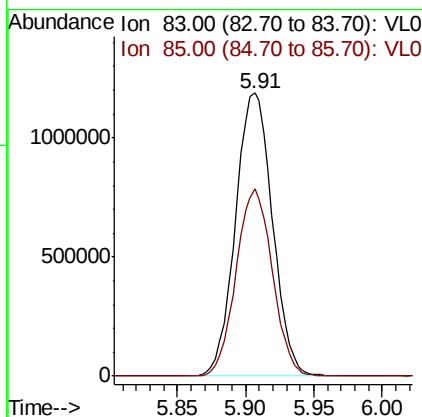
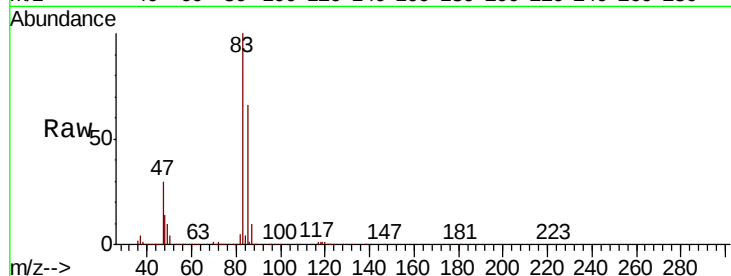
85 66.0 51.6 77.4

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#30

Cyclohexane

Concen: 11.72 ppbv

RT: 7.31 min Scan# 1935

Delta R.T. 0.00 min

Lab File: VL032381.D

Acq: 16 Aug 2018 17:41

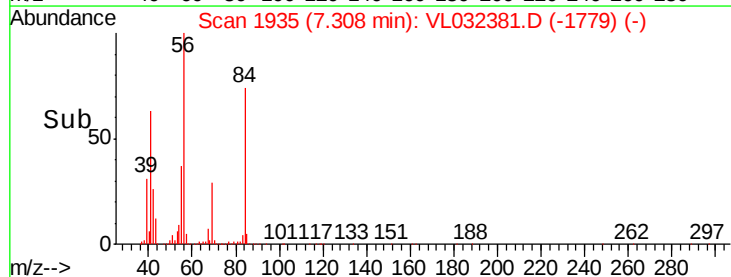
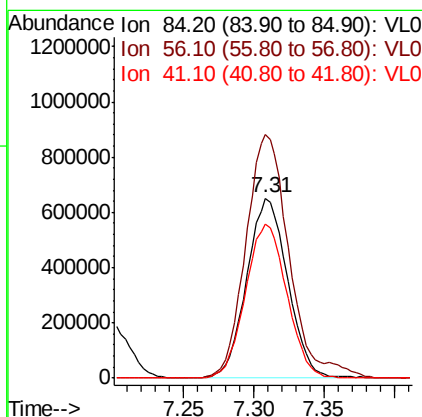
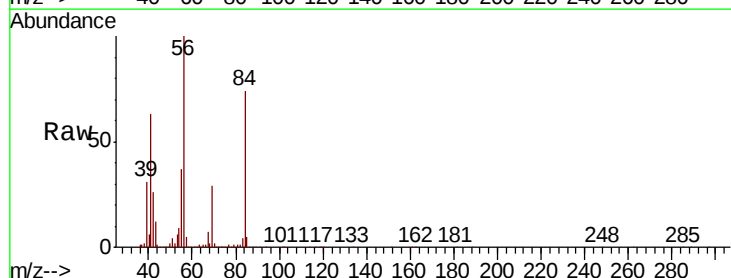
Tgt Ion: 84 Resp: 1316054

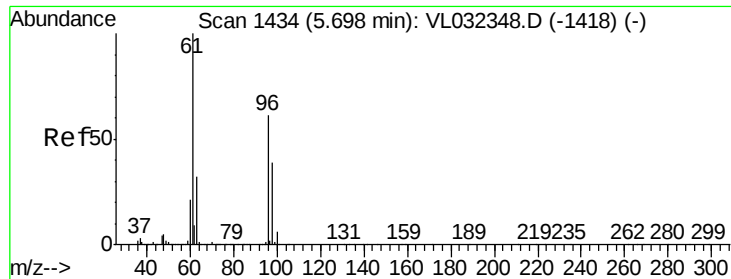
Ion Ratio Lower Upper

84 100

56 144.4 115.7 173.5

41 86.9 67.9 101.9





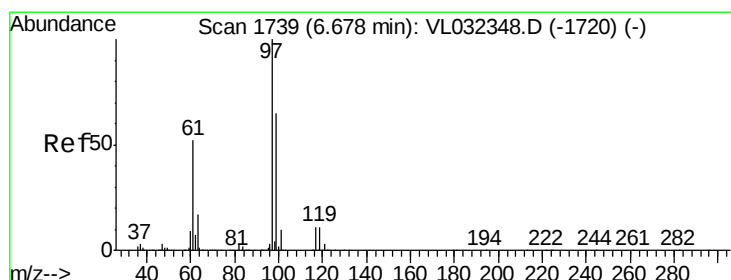
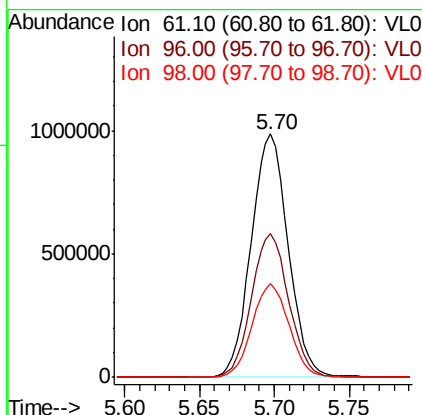
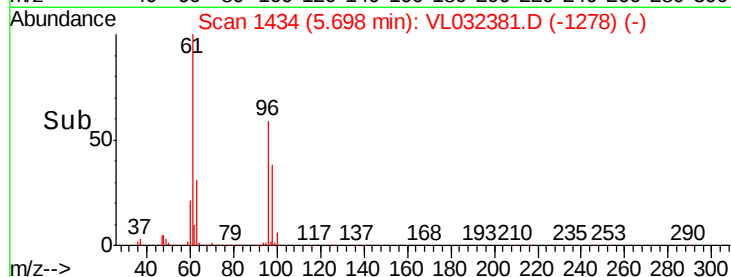
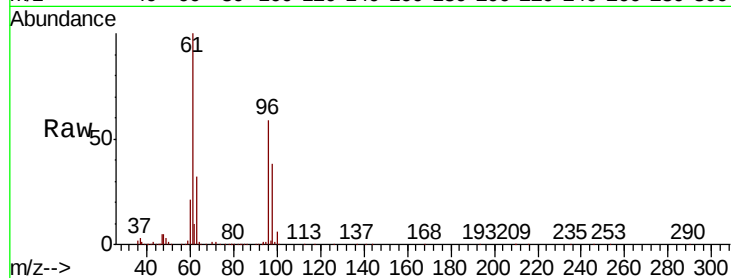
#31
 cis-1,2-Dichloroethene
 Concen: 11.74 ppbv
 RT: 5.70 min Scan# 1434
 Delta R.T. 0.00 min
 Lab File: VL032381.D
 Acq: 16 Aug 2018 17:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0816ABSD01

Tot Ion	Ratio	Lower	Upper
61	100		
96	58.8	48.5	72.7
98	38.4	31.0	46.4

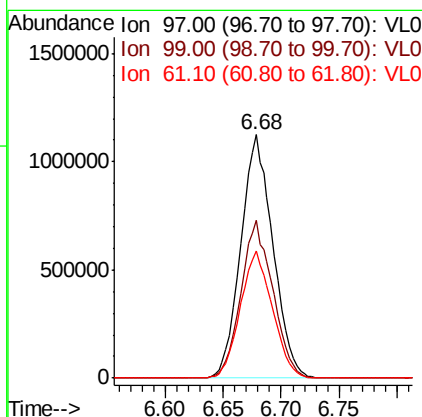
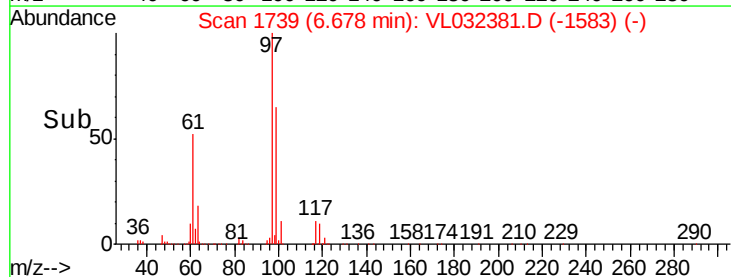
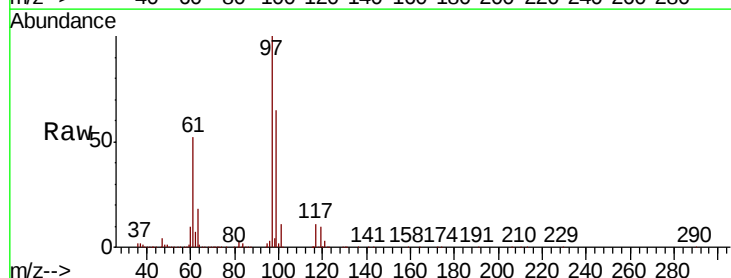
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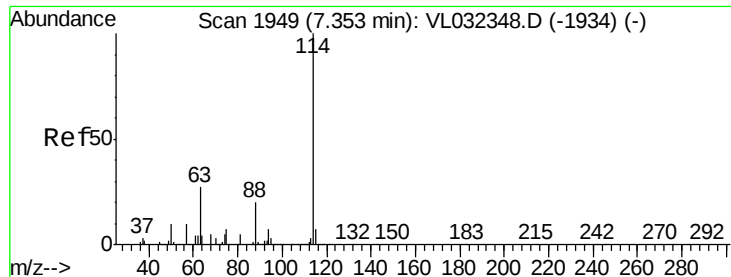
MMDadoda
 8/28/2018 2:53:00 PM



#32
 1,1,1-Trichloroethane
 Concen: 10.30 ppbv
 RT: 6.68 min Scan# 1739
 Delta R.T. 0.00 min
 Lab File: VL032381.D
 Acq: 16 Aug 2018 17:41

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.1	76.7
61	52.3	41.1	61.7





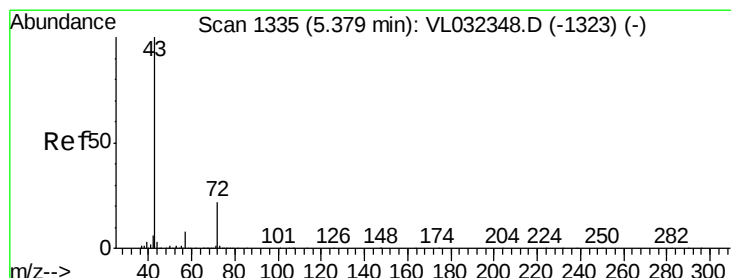
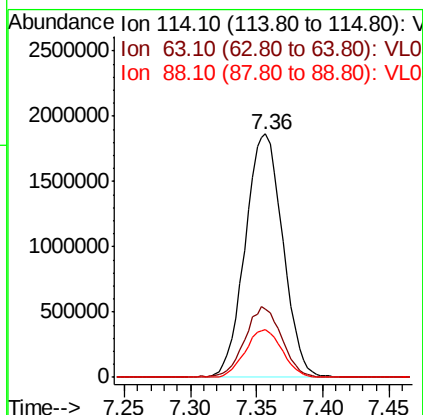
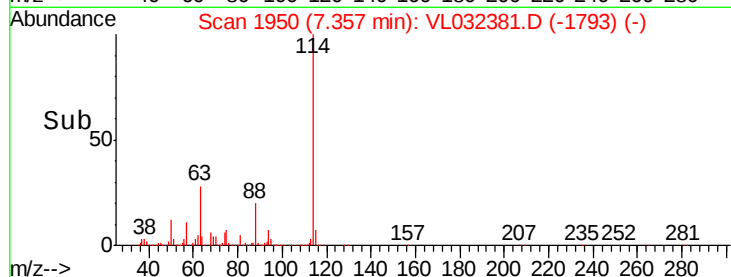
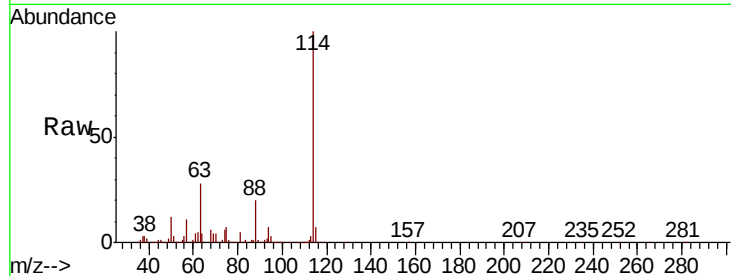
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.36 min Scan# 1950
 Delta R.T. 0.00 min
 Lab File: VL032381.D
 Acq: 16 Aug 2018 17:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0816ABSD01

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.7	22.0	33.0
88	19.4	15.3	22.9

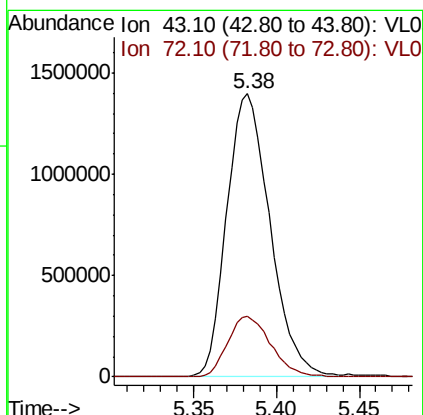
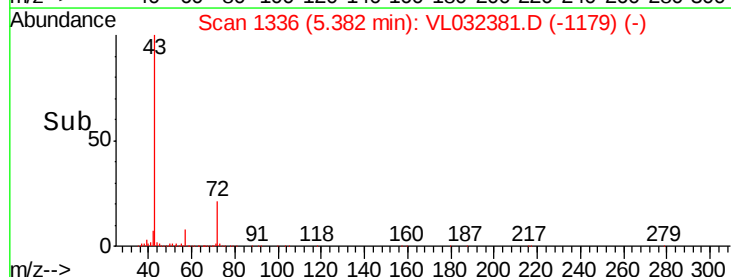
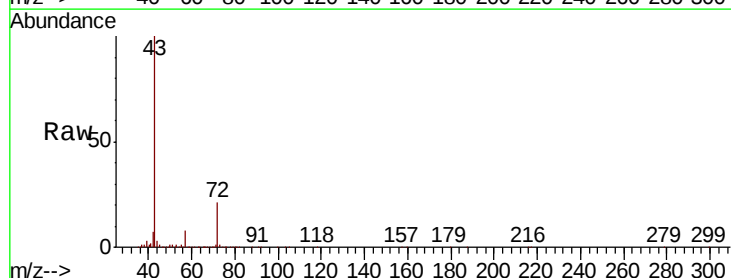
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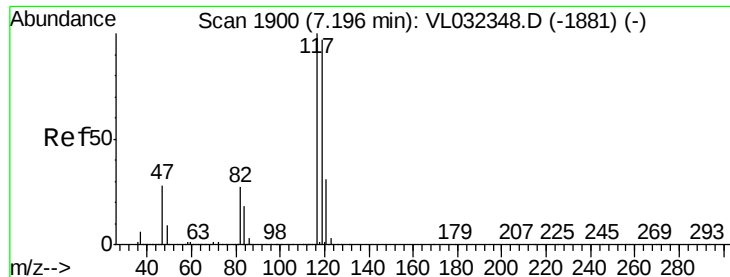
MMDadoda
 8/28/2018 2:53:00 PM



#34
 2-Butanone
 Concen: 10.08 ppbv
 RT: 5.38 min Scan# 1336
 Delta R.T. 0.00 min
 Lab File: VL032381.D
 Acq: 16 Aug 2018 17:41

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.7	17.9	26.9





#35

Carbon Tetrachloride

Concen: 10.78 ppbv

RT: 7.20 min Scan# 1900

Delta R.T. 0.00 min

Lab File: VL032381.D

Acq: 16 Aug 2018 17:41

Instrument :

MSVOA_L

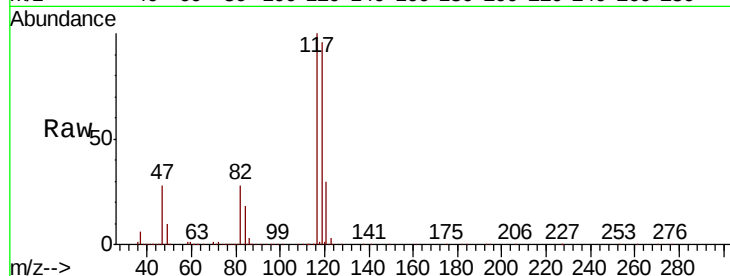
ClientSampleId :

VL0816ABSD01

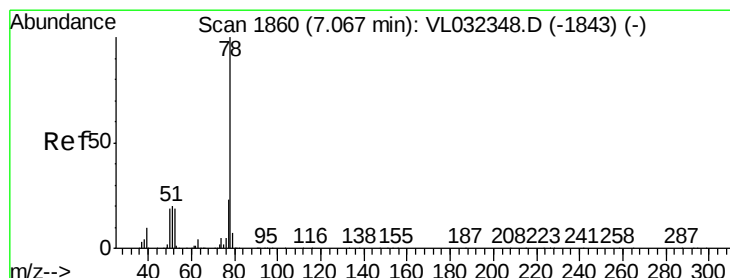
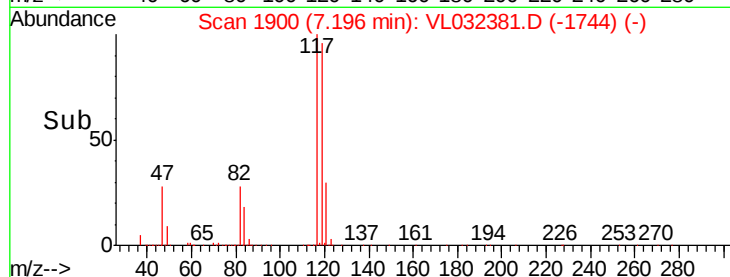
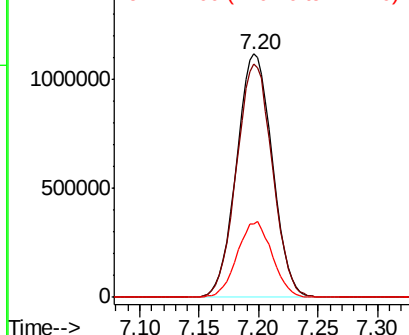
Tot Ion:	117	Resp:	2333126
Ion	Ratio	Lower	Upper
117	100		
119	96.0	77.2	115.8
121	30.3	25.1	37.7

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



#36

Benzene

Concen: 9.92 ppbv

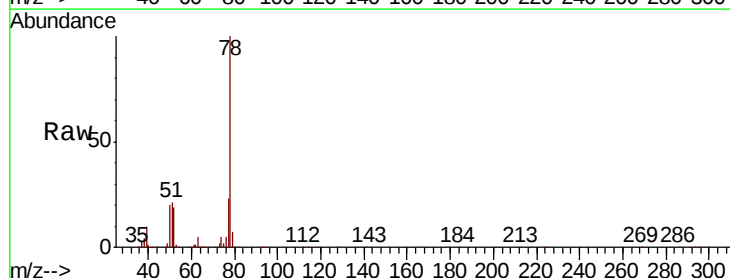
RT: 7.07 min Scan# 1860

Delta R.T. 0.00 min

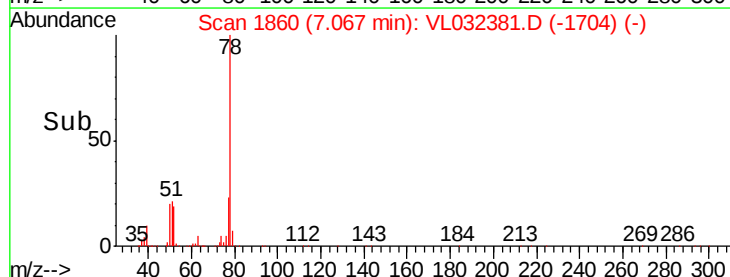
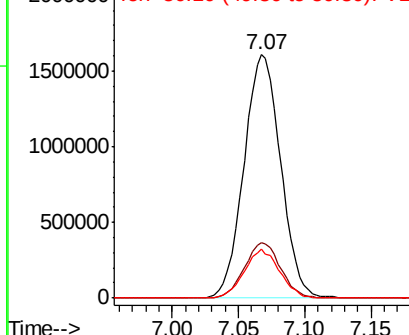
Lab File: VL032381.D

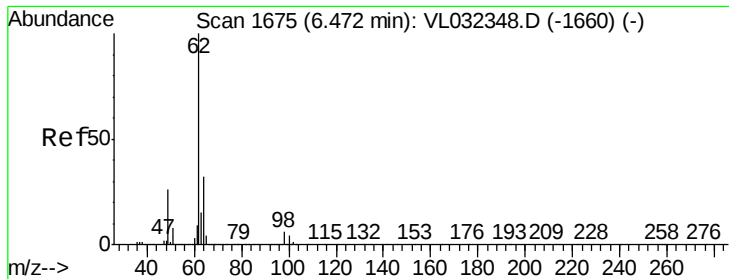
Acq: 16 Aug 2018 17:41

Tgt Ion:	78	Resp:	3088367
Ion	Ratio	Lower	Upper
78	100		
77	22.7	18.0	27.0
50	20.0	15.1	22.7



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





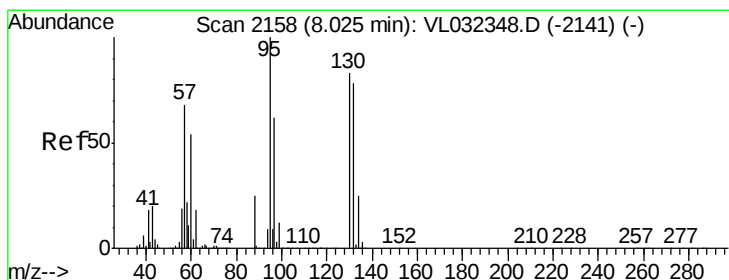
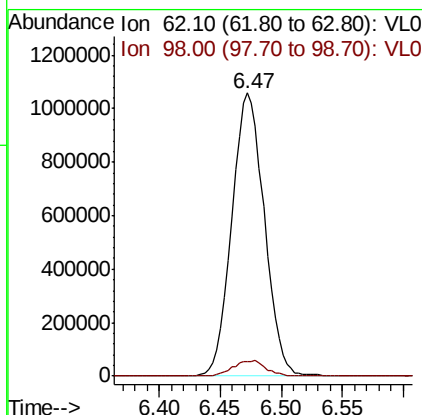
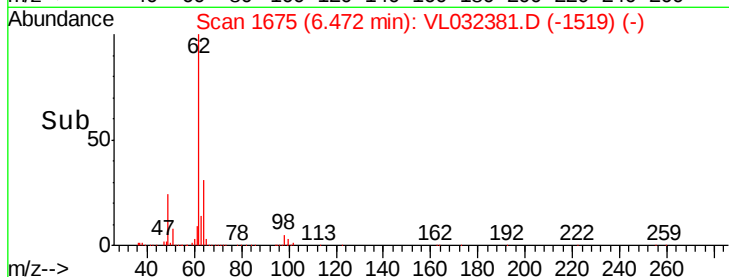
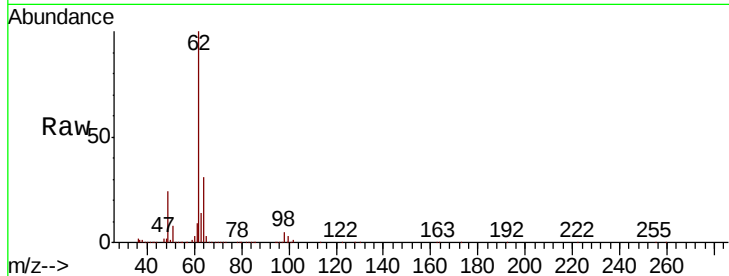
#37
 1,2-Dichloroethane
 Concen: 10.38 ppbv
 RT: 6.47 min Scan# 1675
 Delta R.T. 0.00 min
 Lab File: VL032381.D
 Acq: 16 Aug 2018 17:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0816ABSD01

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.6	5.0	7.6

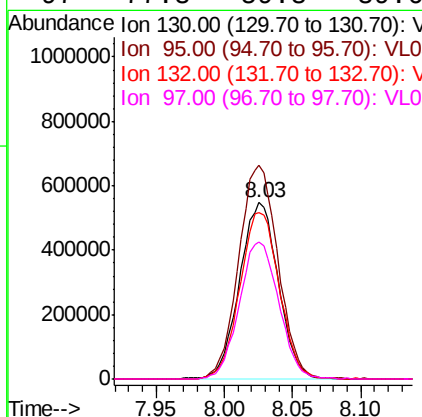
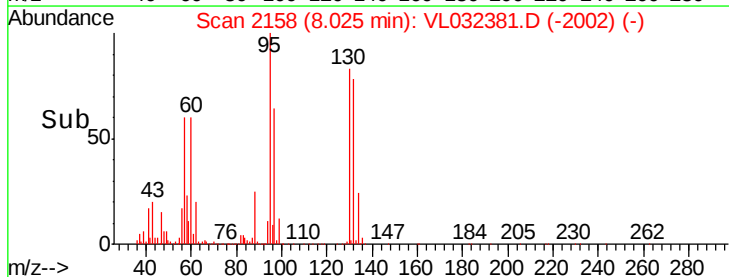
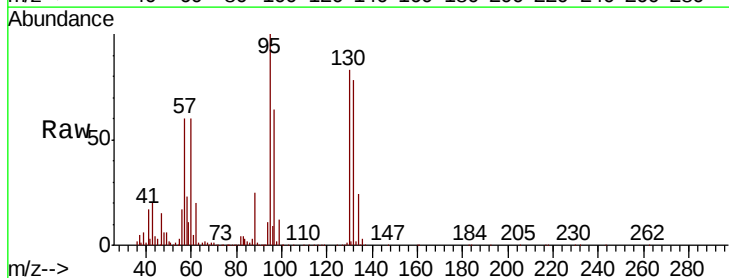
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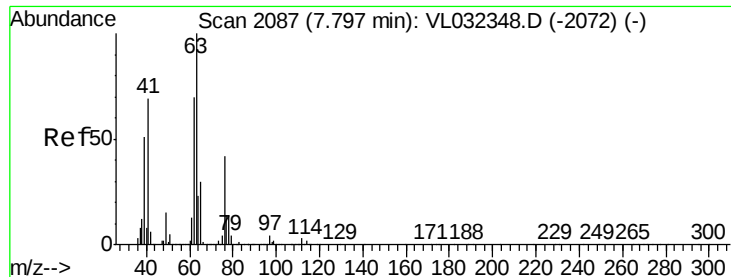
MMDadoda
 8/28/2018 2:53:00 PM



#38
 Trichloroethene
 Concen: 9.88 ppbv
 RT: 8.03 min Scan# 2158
 Delta R.T. 0.00 min
 Lab File: VL032381.D
 Acq: 16 Aug 2018 17:41

Tgt Ion	Ratio	Lower	Upper
130	100		
95	121.2	96.6	144.8
132	94.2	75.5	113.3
97	77.8	59.8	89.6





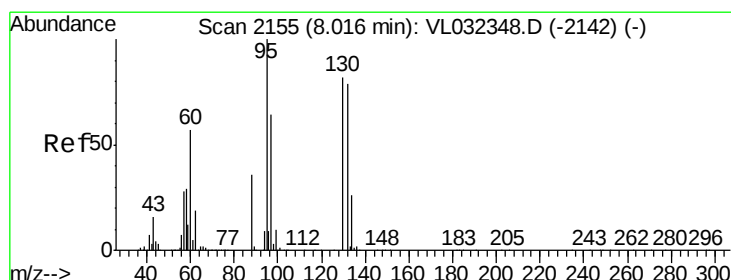
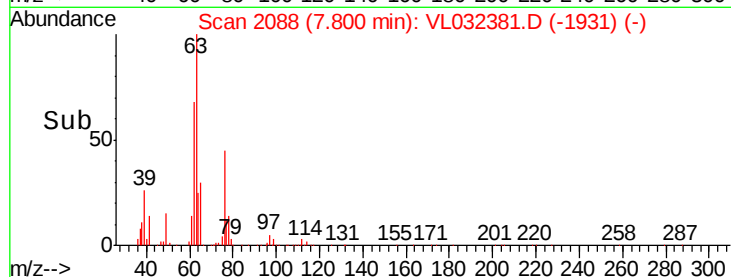
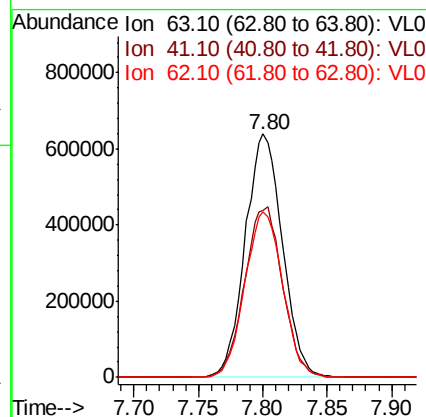
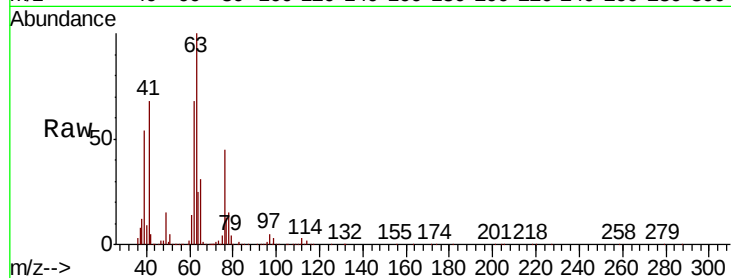
#39
 1,2-Dichloropropane
 Concen: 9.85 ppbv
 RT: 7.80 min Scan# 2088
 Delta R.T. 0.00 min
 Lab File: VL032381.D
 Acq: 16 Aug 2018 17:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0816ABSD01

Tot Ion:	63	Resp:	1280029
Ion	Ratio	Lower	Upper
63	100		
41	68.2	55.5	83.3
62	67.8	56.3	84.5

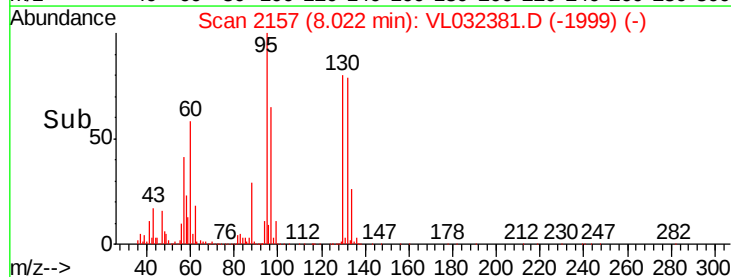
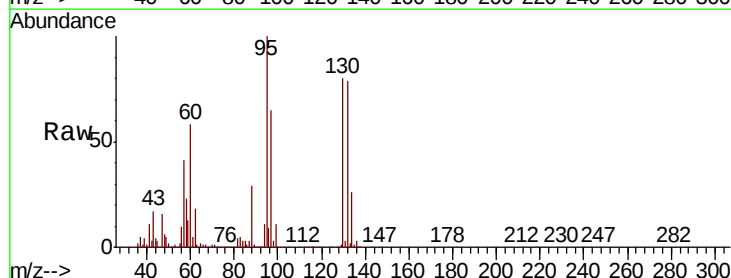
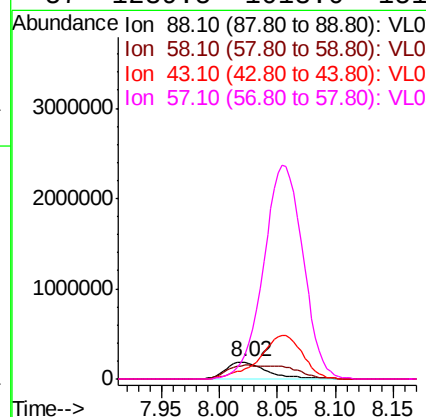
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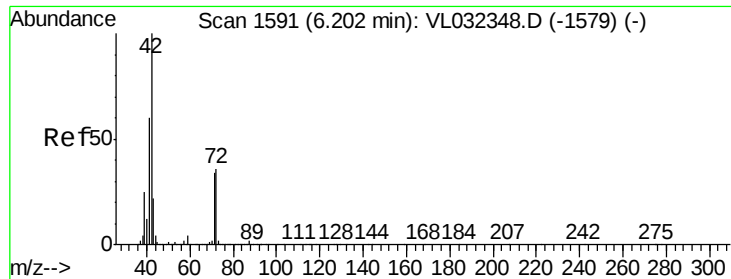
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#40
 1,4-Dioxane
 Concen: 11.52 ppbv
 RT: 8.02 min Scan# 2157
 Delta R.T. 0.01 min
 Lab File: VL032381.D
 Acq: 16 Aug 2018 17:41

Tgt Ion:	88	Resp:	454754
Ion	Ratio	Lower	Upper
88	100		
58	135.6	113.7	170.5
43	276.5	224.0	336.0
57	1239.5	1013.0	1519.6





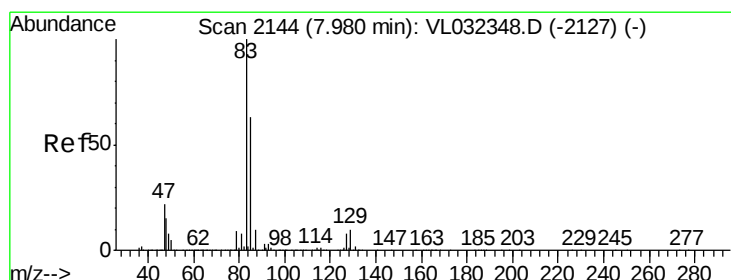
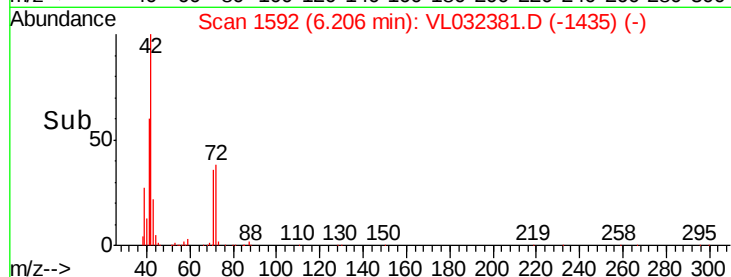
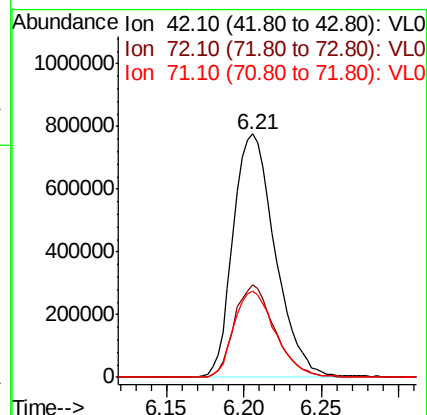
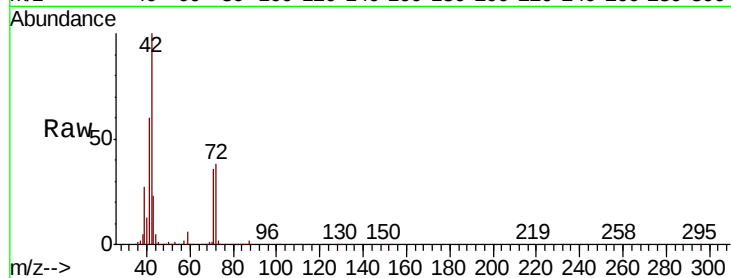
#41
Tetrahydrofuran
Concen: 10.91 ppbv
RT: 6.21 min Scan# 1592
Delta R.T. 0.00 min
Lab File: VL032381.D
Acq: 16 Aug 2018 17:41

Instrument :
MSVOA_L
ClientSampleId :
VL0816ABSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.8	29.8	44.6
71	35.2	28.2	42.2

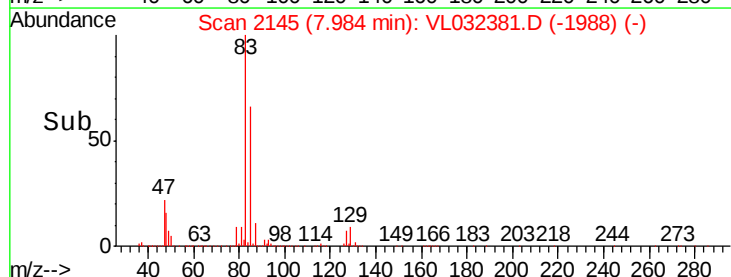
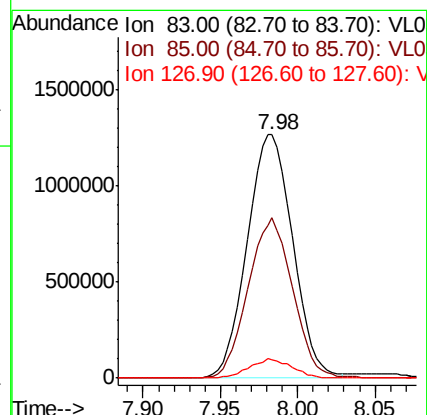
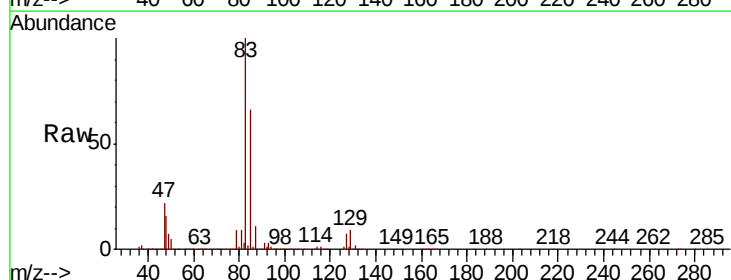
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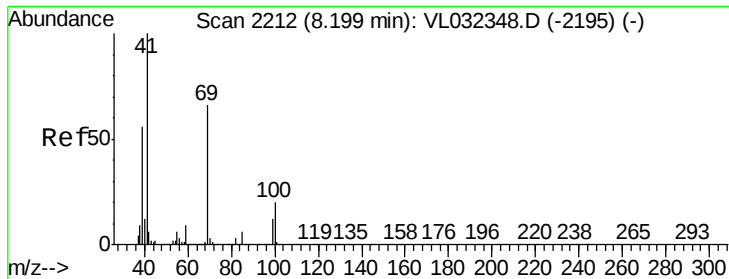
MMDadoda
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#42
Bromodichloromethane
Concen: 10.47 ppbv
RT: 7.98 min Scan# 2145
Delta R.T. 0.00 min
Lab File: VL032381.D
Acq: 16 Aug 2018 17:41

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.0	50.4	75.6
127	7.3	6.1	9.1





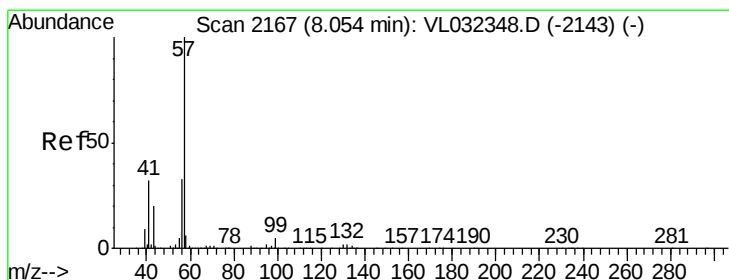
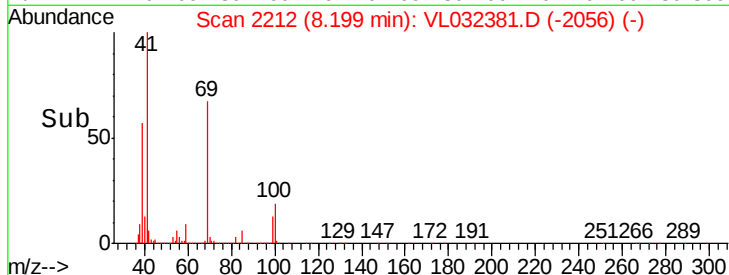
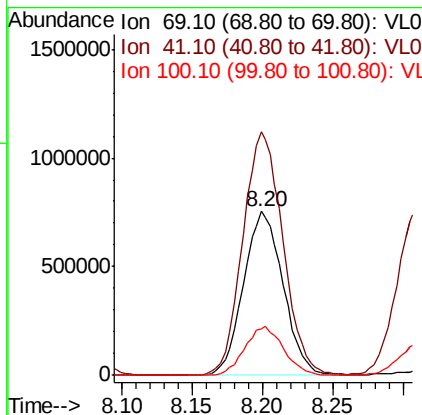
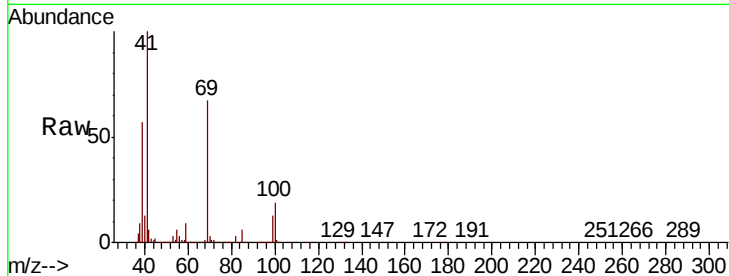
#43
Methvl Methacrvlate
Concen: 11.96 ppbv
RT: 8.20 min Scan# 2212
Delta R.T. 0.00 min
Lab File: VL032381.D
Acq: 16 Aug 2018 17:41

Instrument :
MSVOA_L
ClientSampleId :
VL0816ABSD01

Tot Ion: 69 Resp: 1483030
Ion Ratio Lower Upper
69 100
41 149.7 118.6 177.8
100 29.2 23.4 35.2

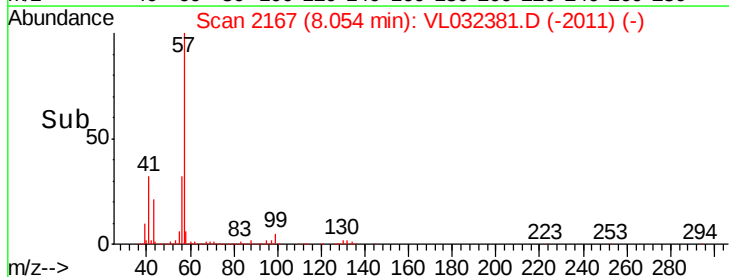
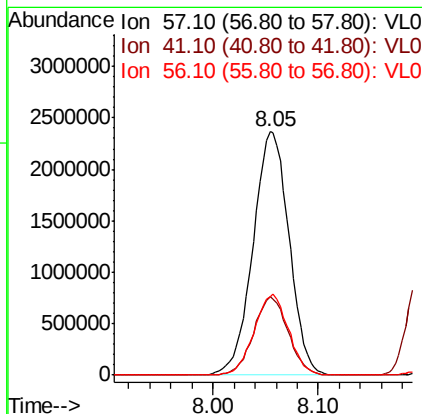
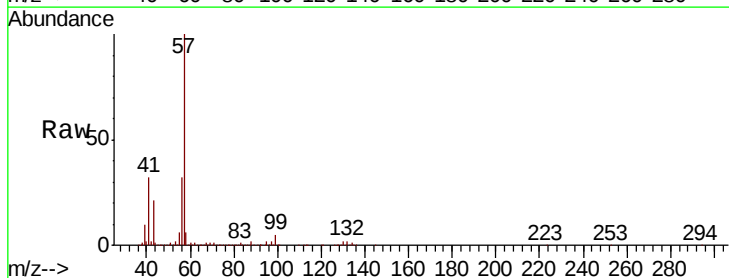
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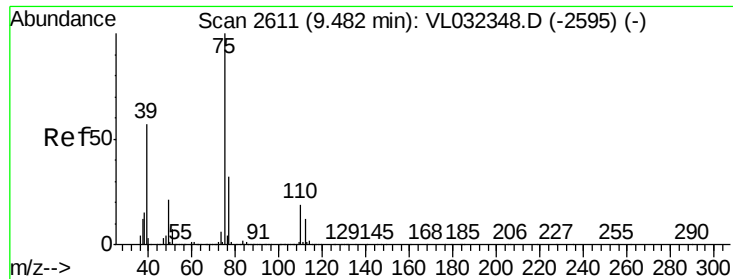
MMDadoda
8/28/2018 2:53:00 PM



#44
2,2,4-Trimethylpentane
Concen: 10.04 ppbv
RT: 8.05 min Scan# 2167
Delta R.T. 0.00 min
Lab File: VL032381.D
Acq: 16 Aug 2018 17:41

Tgt Ion: 57 Resp: 5631872
Ion Ratio Lower Upper
57 100
41 30.9 24.3 36.5
56 31.6 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 11.83 ppbv

RT: 9.48 min Scan# 2611

Delta R.T. 0.00 min

Lab File: VL032381.D

Acq: 16 Aug 2018 17:41

Tot Ion: 75 Resp: 1856043

Ion Ratio Lower Upper

75 100

77 32.2 25.4 38.2

Instrument :

MSVOA_L

ClientSampleId :

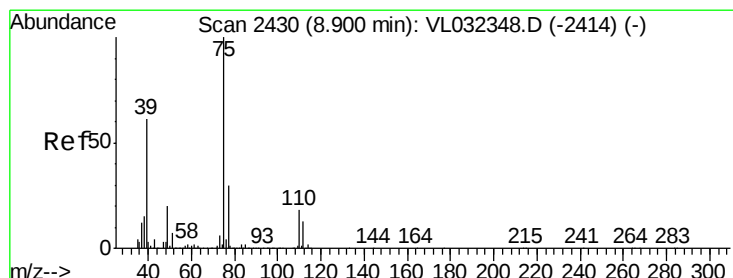
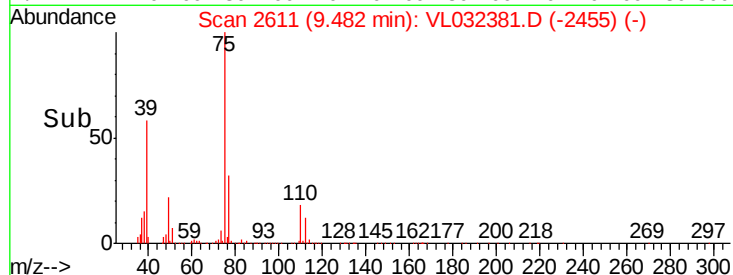
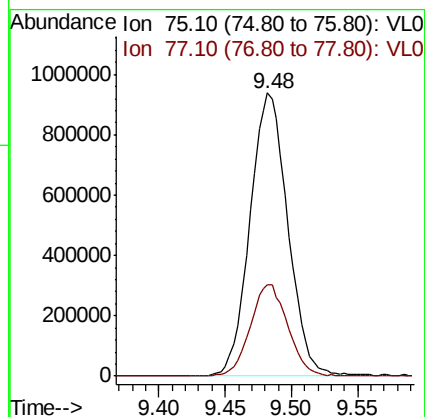
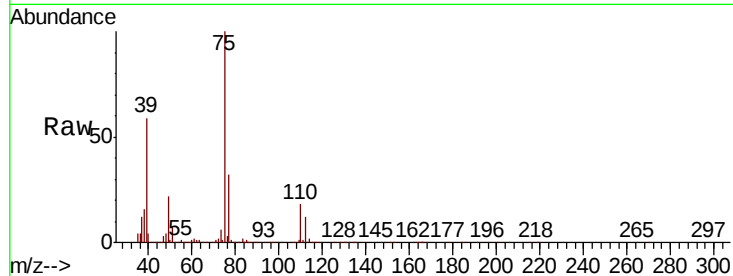
VL0816ABSD01

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#46

cis-1,3-Dichloropropene

Concen: 11.62 ppbv

RT: 8.90 min Scan# 2431

Delta R.T. 0.00 min

Lab File: VL032381.D

Acq: 16 Aug 2018 17:41

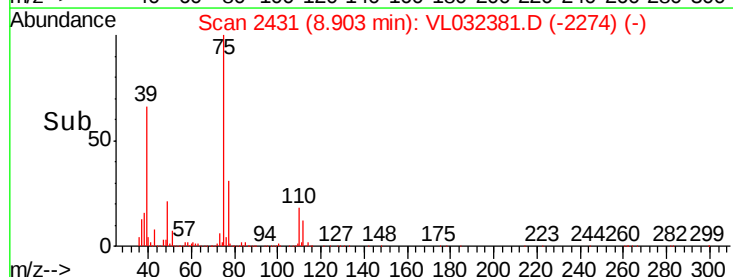
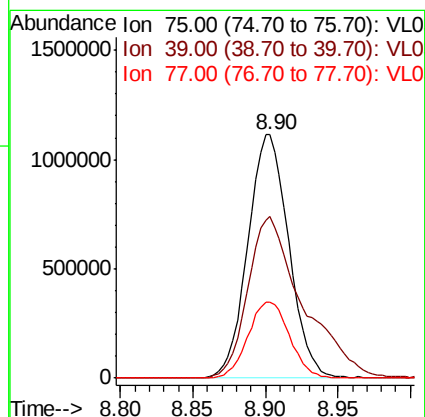
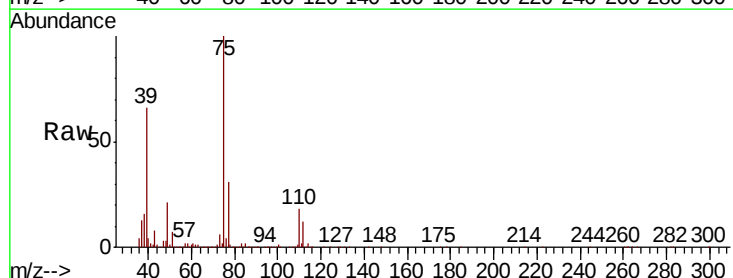
Tgt Ion: 75 Resp: 2186462

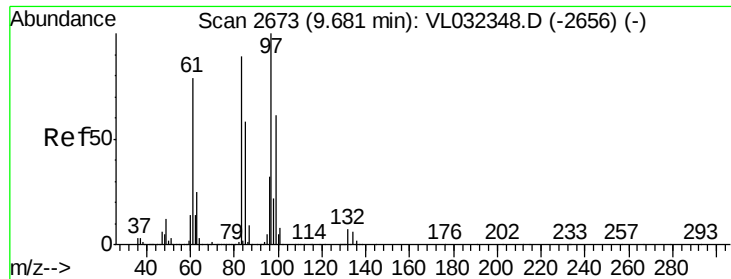
Ion Ratio Lower Upper

75 100

39 66.1 48.5 72.7

77 31.3 24.3 36.5





#47

1,1,2-Trichloroethane

Concen: 8.64 ppbv

RT: 9.68 min Scan# 2674

Delta R.T. 0.00 min

Lab File: VL032381.D

Acq: 16 Aug 2018 17:41

Instrument :

MSVOA_L

ClientSampleId :

VL0816ABSD01

Tot Ion: 97 Resp: 1236739

Ion Ratio Lower Upper

97 100

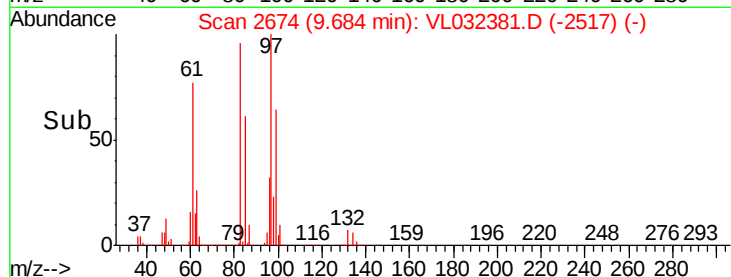
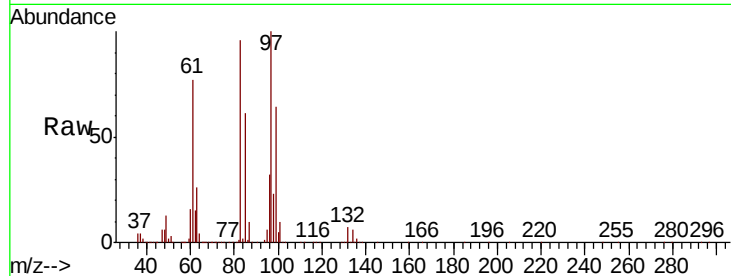
83 96.1 71.2 106.8

85 60.2 46.6 69.8

99 63.8 49.2 73.8

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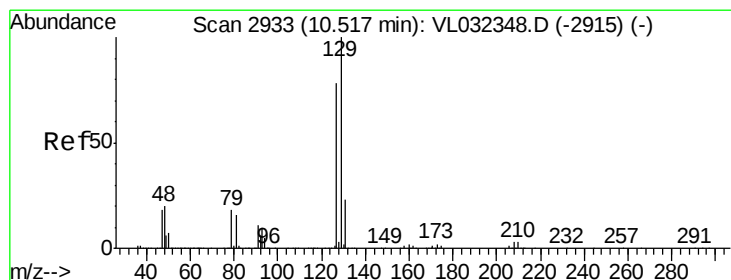
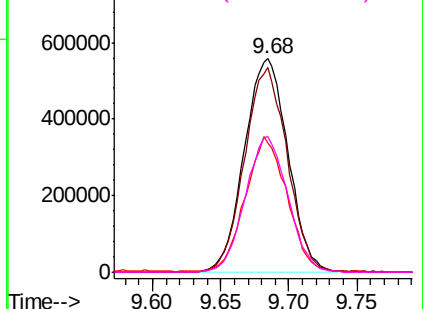


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 10.35 ppbv

RT: 10.52 min Scan# 2934

Delta R.T. 0.00 min

Lab File: VL032381.D

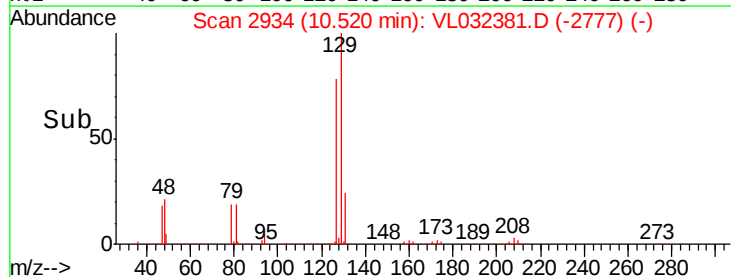
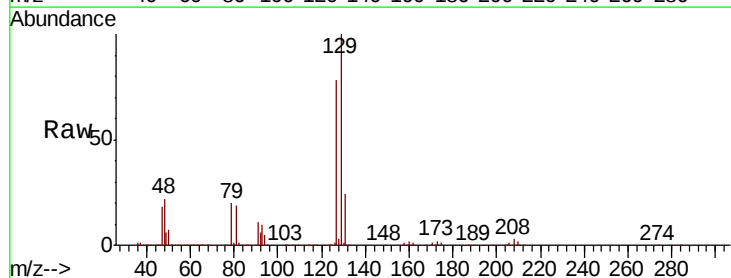
Acq: 16 Aug 2018 17:41

Tgt Ion: 129 Resp: 1980234

Ion Ratio Lower Upper

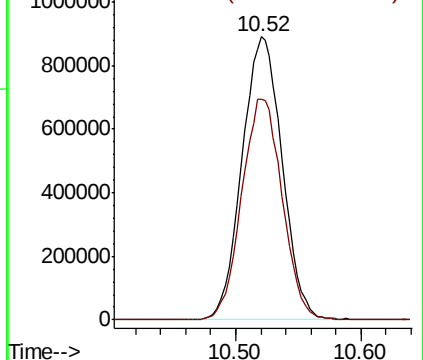
129 100

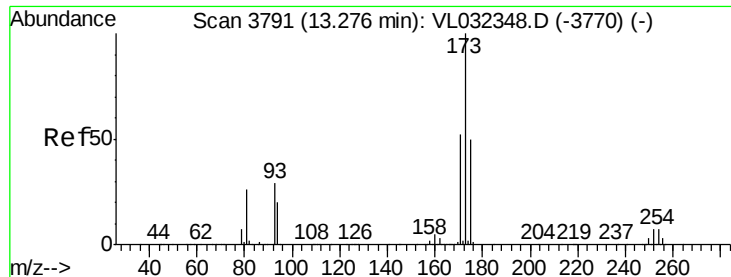
127 79.1 39.3 117.9



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





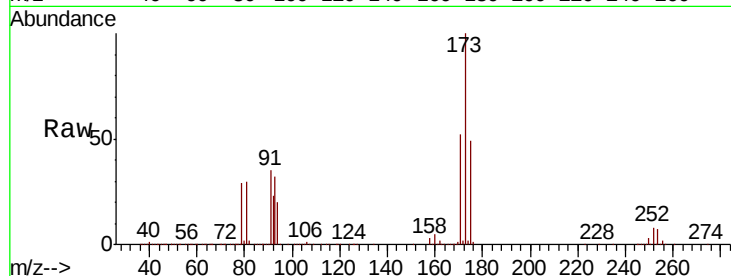
#49
Bromoform
Concen: 10.22 ppbv
RT: 13.28 min Scan# 3791
Delta R.T. 0.00 min
Lab File: VL032381.D
Acq: 16 Aug 2018 17:41

Instrument :
MSVOA_L
ClientSampleId :
VL0816ABSD01

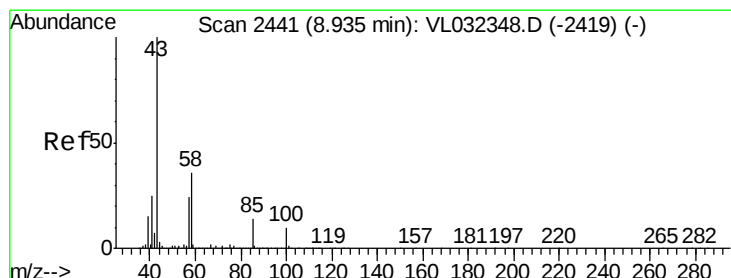
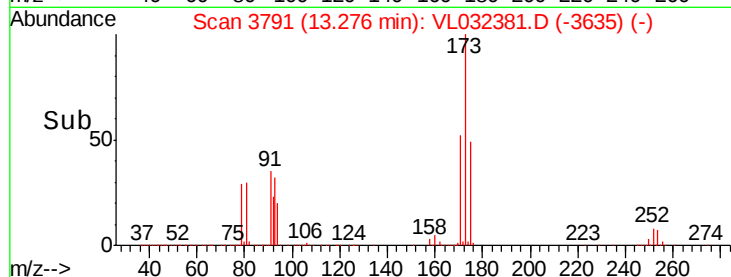
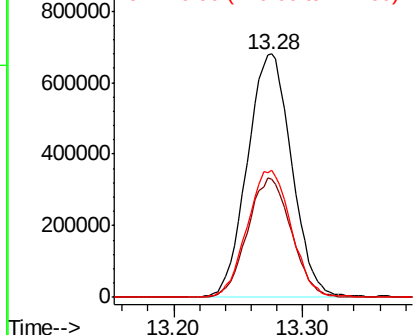
Tot Ion:173 Resp: 1624549
Ion Ratio Lower Upper
173 100
175 48.8 39.3 58.9
171 52.2 41.9 62.9

Manual Integrations
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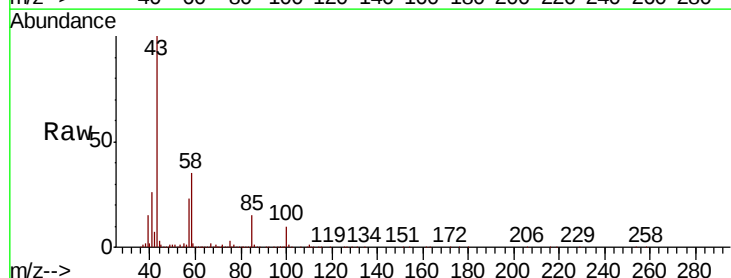


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

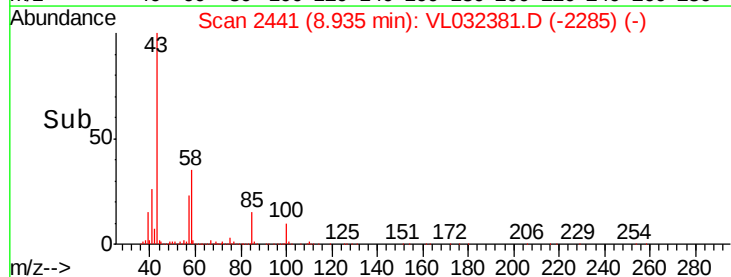
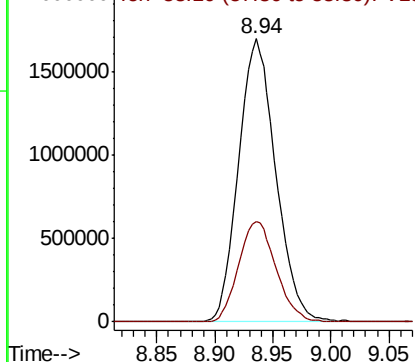


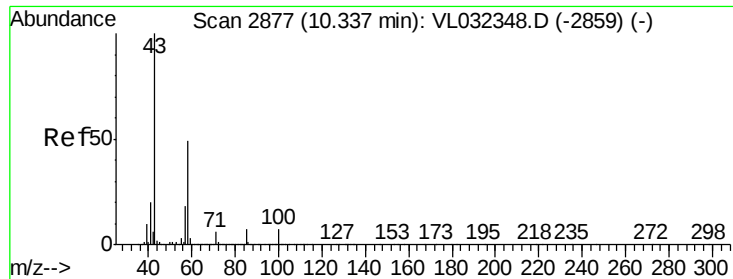
#50
4-Methyl-2-Pentanone
Concen: 10.43 ppbv
RT: 8.94 min Scan# 2441
Delta R.T. 0.00 min
Lab File: VL032381.D
Acq: 16 Aug 2018 17:41

Tgt Ion: 43 Resp: 3764418
Ion Ratio Lower Upper
43 100
58 36.0 28.9 43.3



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





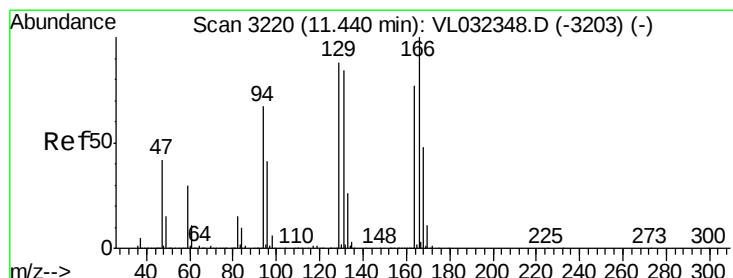
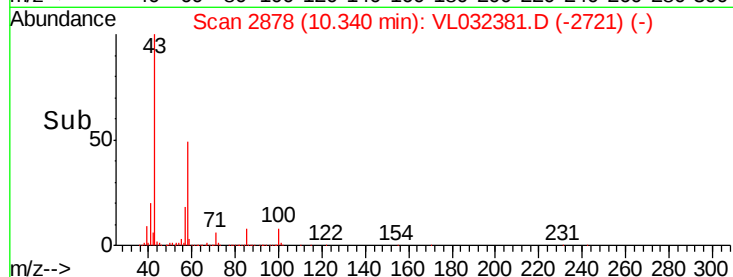
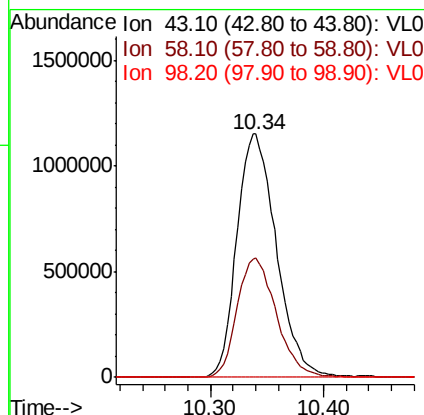
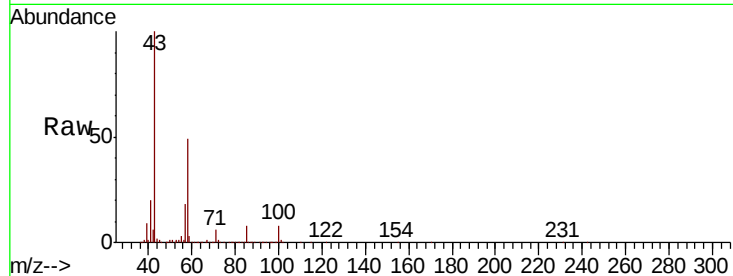
#51
2-Hexanone
Concen: 11.02 ppbv
RT: 10.34 min Scan# 2878
Delta R.T. 0.00 min
Lab File: VL032381.D
Acq: 16 Aug 2018 17:41

Instrument :
MSVOA_L
ClientSampleId :
VL0816ABSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.9	39.5	59.3
98	0.1	0.3	0.5

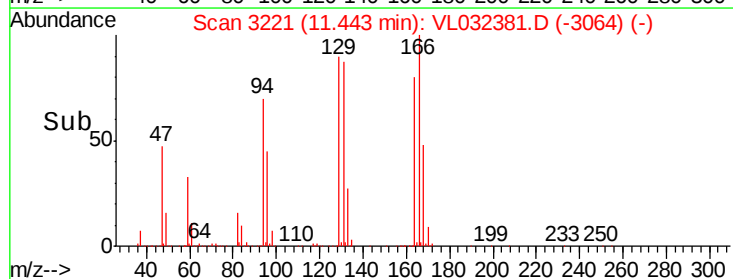
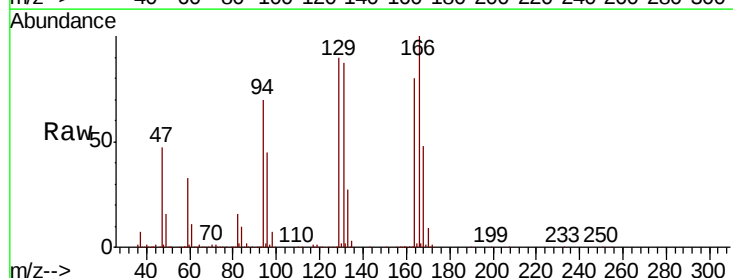
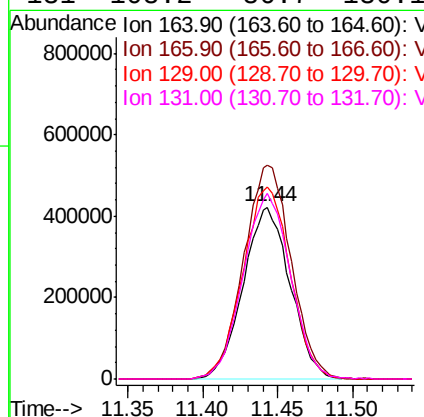
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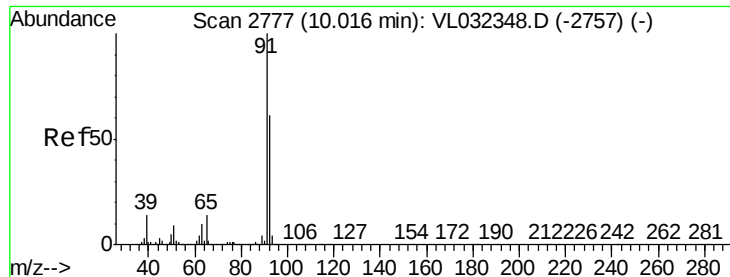
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#52
Tetrachloroethene
Concen: 10.00 ppbv
RT: 11.44 min Scan# 3221
Delta R.T. 0.00 min
Lab File: VL032381.D
Acq: 16 Aug 2018 17:41

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.1	103.5	155.3
129	111.5	90.9	136.3
131	108.2	86.7	130.1





#53

Toluene

Concen: 10.32 ppbv

RT: 10.02 min Scan# 2777

Delta R.T. 0.00 min

Lab File: VL032381.D

Acq: 16 Aug 2018 17:41

Instrument :

MSVOA_L

ClientSampleId :

VL0816ABSD01

Tot Ion: 91 Resp: 3521850

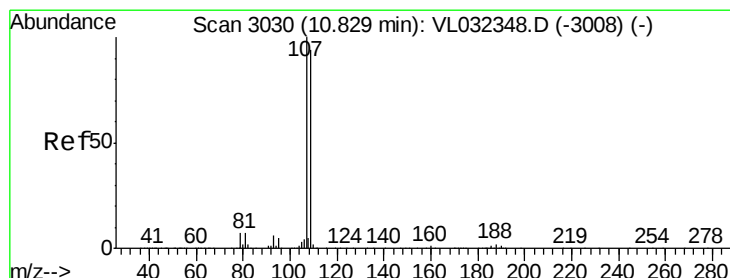
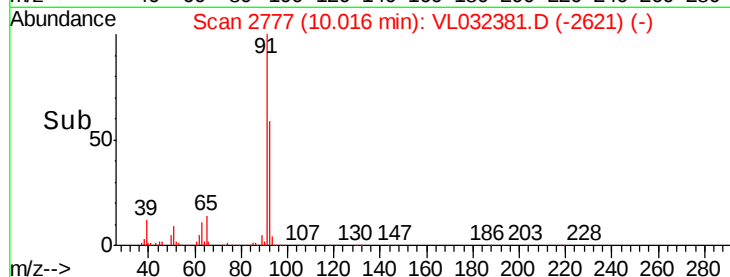
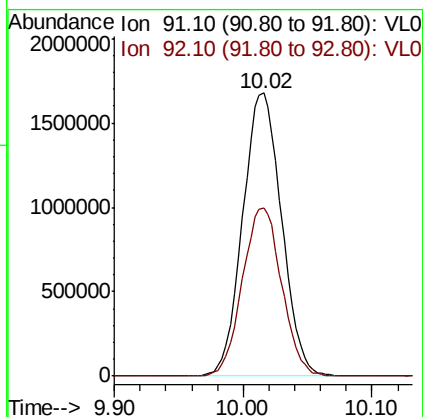
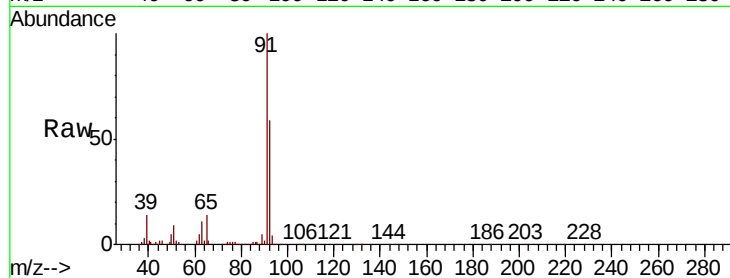
Ion Ratio Lower Upper

91 100

92 60.1 48.7 73.1

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#54

1,2-Dibromoethane

Concen: 10.08 ppbv

RT: 10.83 min Scan# 3030

Delta R.T. 0.00 min

Lab File: VL032381.D

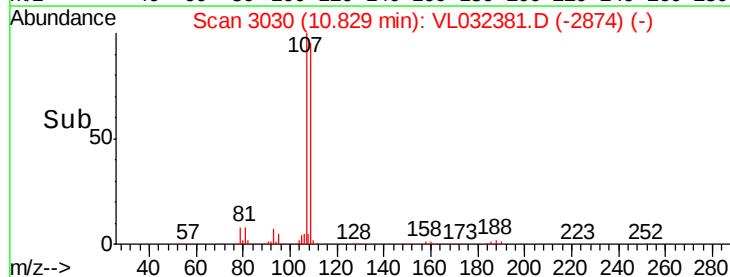
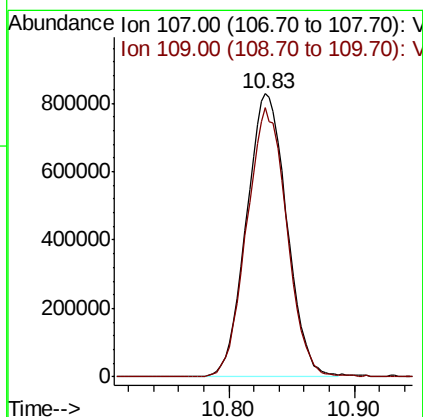
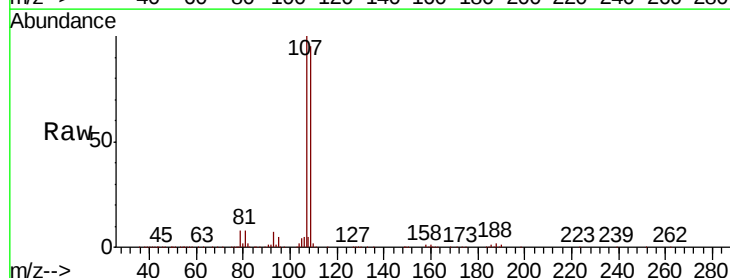
Acq: 16 Aug 2018 17:41

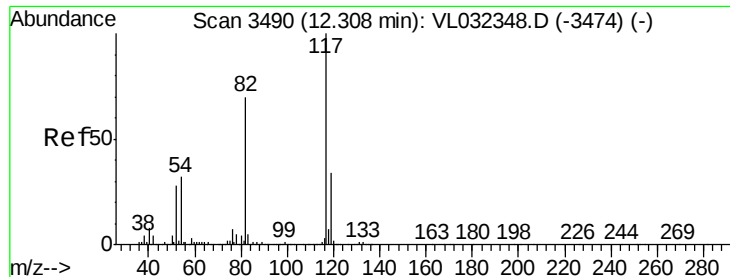
Tgt Ion: 107 Resp: 1851786

Ion Ratio Lower Upper

107 100

109 95.1 74.9 112.3





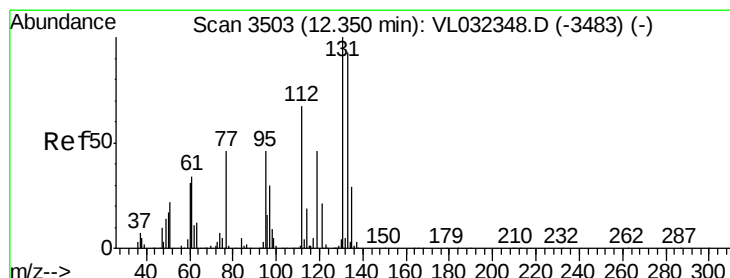
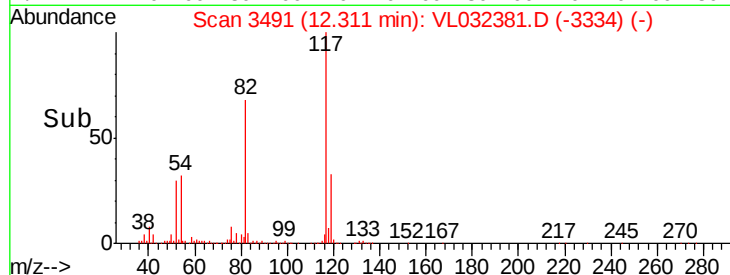
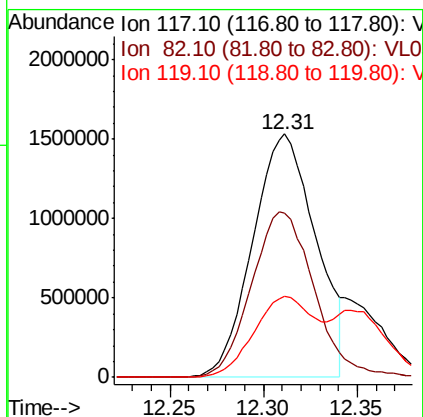
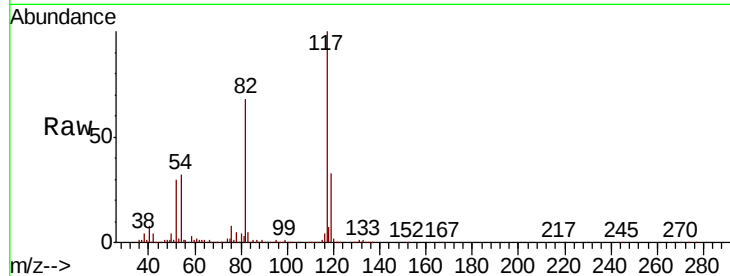
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.31 min Scan# 3491
Delta R.T. 0.00 min
Lab File: VL032381.D
Acq: 16 Aug 2018 17:41

Instrument :
MSVOA_L
ClientSampleId :
VL0816ABSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	68.3	55.1	82.7
119	33.2	46.0	69.0#

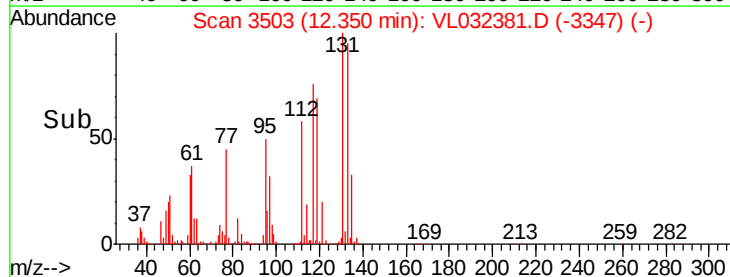
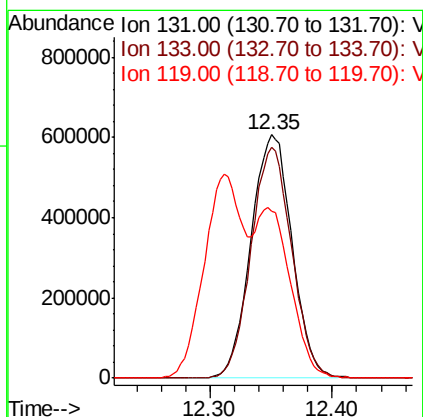
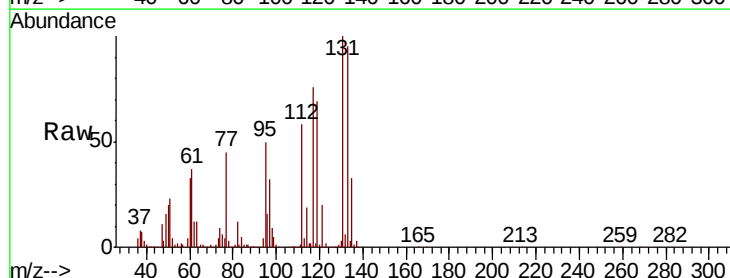
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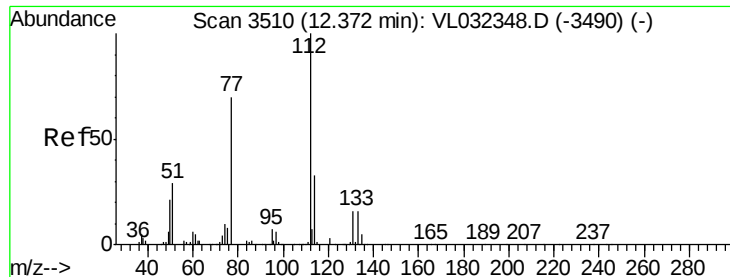
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.53 ppbv
RT: 12.35 min Scan# 3503
Delta R.T. 0.00 min
Lab File: VL032381.D
Acq: 16 Aug 2018 17:41

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.2	75.7	113.5
119	59.1	116.0	174.0#





#57

Chlorobenzene

Concen: 9.44 ppbv

RT: 12.37 min Scan# 3510

Delta R.T. 0.00 min

Lab File: VL032381.D

Acq: 16 Aug 2018 17:41

Instrument :

MSVOA_L

ClientSampleId :

VL0816ABSD01

Tot Ion: 112 Resp: 2545982

Ion Ratio Lower Upper

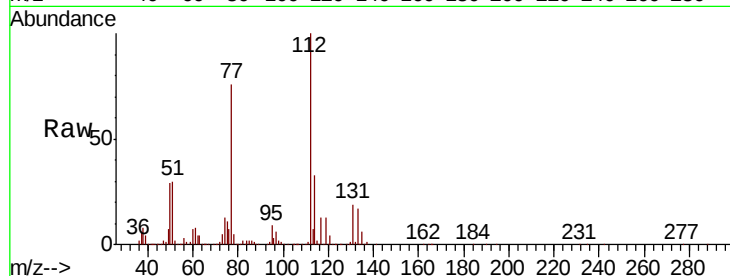
112 100

77 75.8 56.6 84.8

114 33.4 29.4 36.0

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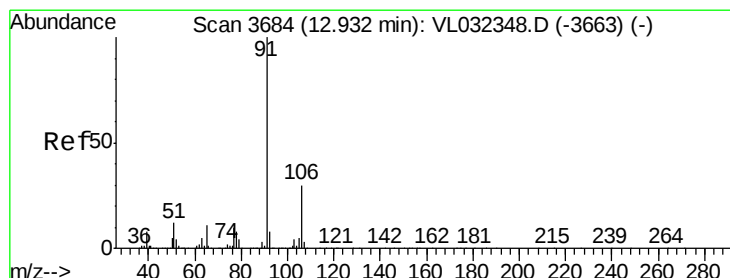
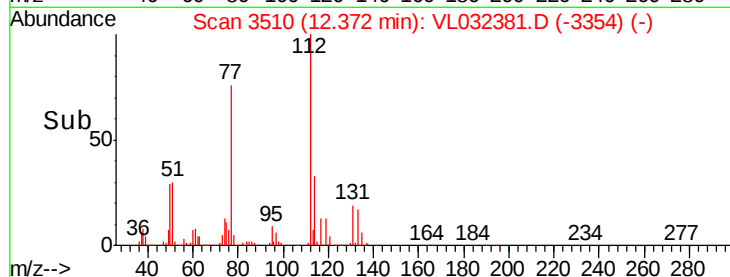
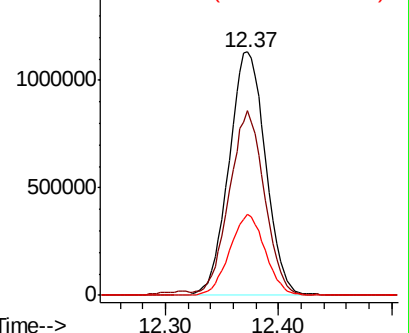
MMDadoda
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 11.02 ppbv

RT: 12.94 min Scan# 3685

Delta R.T. 0.00 min

Lab File: VL032381.D

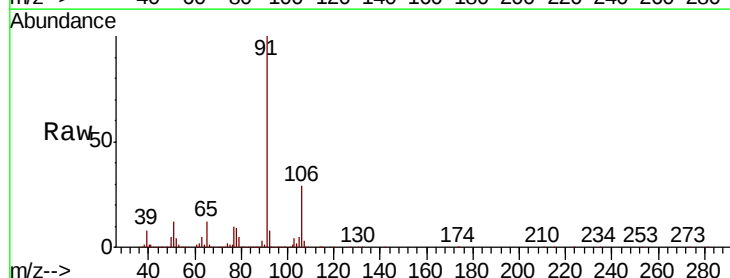
Acq: 16 Aug 2018 17:41

Tgt Ion: 91 Resp: 4748074

Ion Ratio Lower Upper

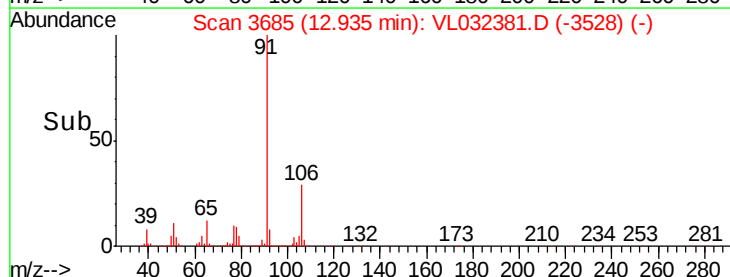
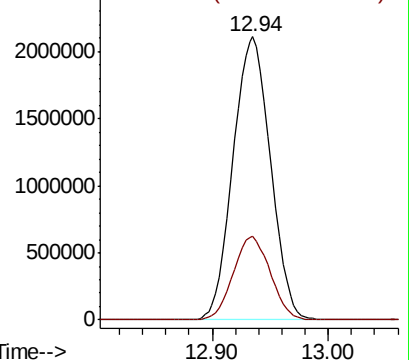
91 100

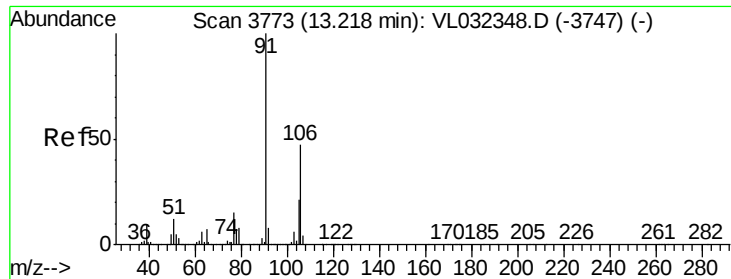
106 29.4 24.3 36.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





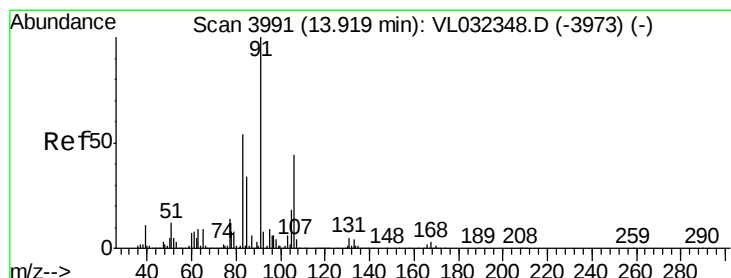
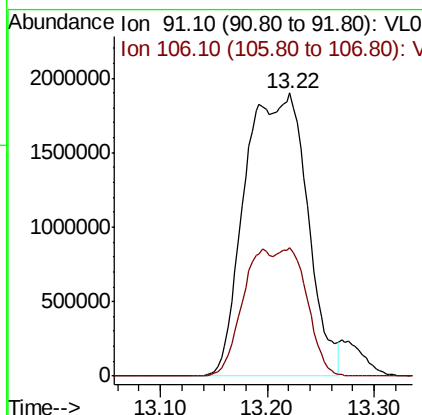
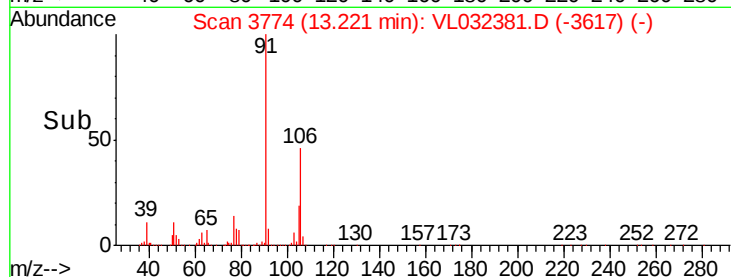
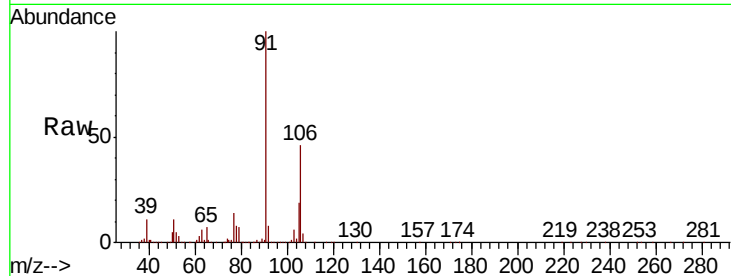
#59
m/p-Xylene
Concen: 20.92 ppbv m
RT: 13.22 min Scan# 3774
Delta R.T. 0.00 min
Lab File: VL032381.D
Acq: 16 Aug 2018 17:41

Instrument :
MSVOA_L
ClientSampleId :
VL0816ABSD01

Tot Ion: 91 Resp: 7657722
Ion Ratio Lower Upper
91 100
106 44.7 37.0 55.4

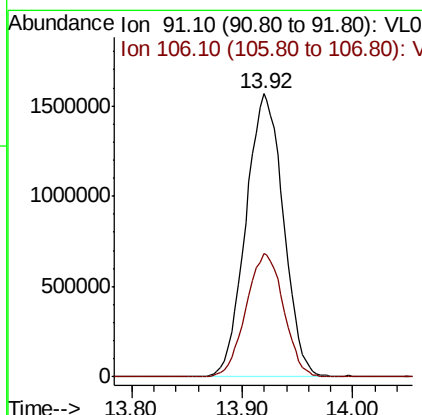
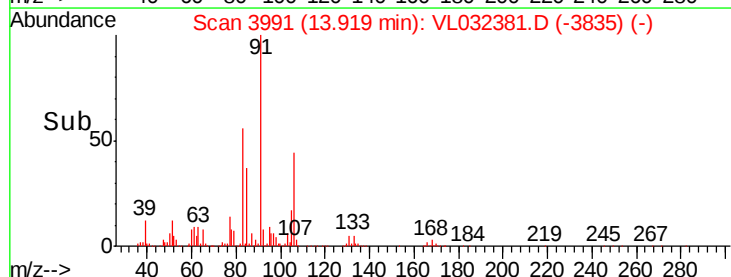
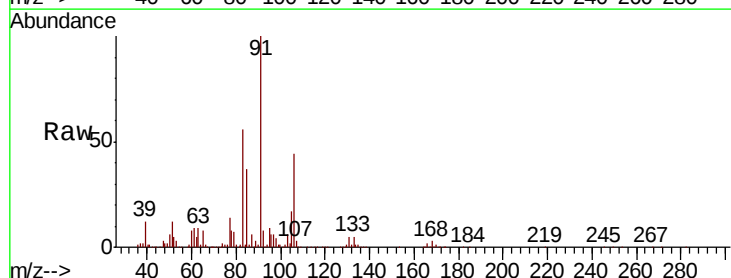
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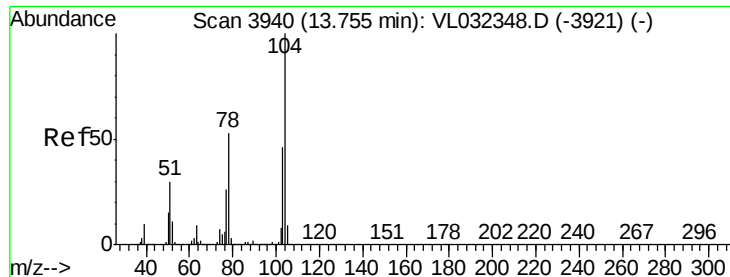
MMDadoda
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#60
o-Xylene
Concen: 10.27 ppbv
RT: 13.92 min Scan# 3991
Delta R.T. 0.00 min
Lab File: VL032381.D
Acq: 16 Aug 2018 17:41

Tgt Ion: 91 Resp: 3694096
Ion Ratio Lower Upper
91 100
106 43.7 22.3 66.8





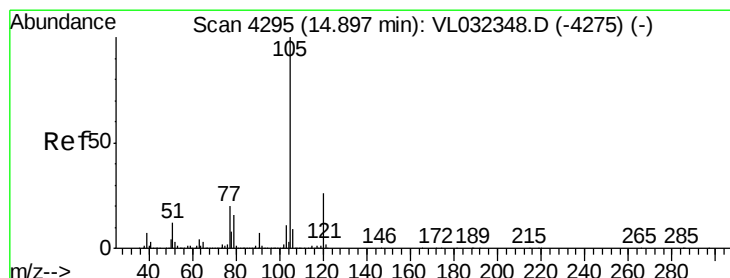
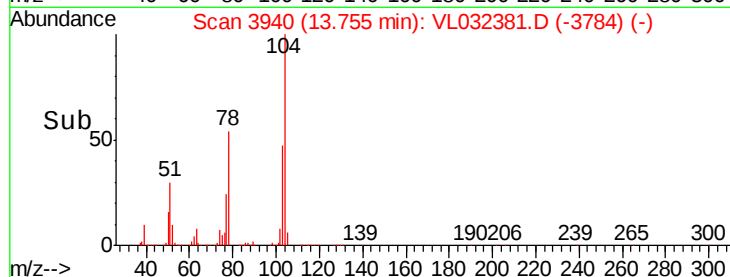
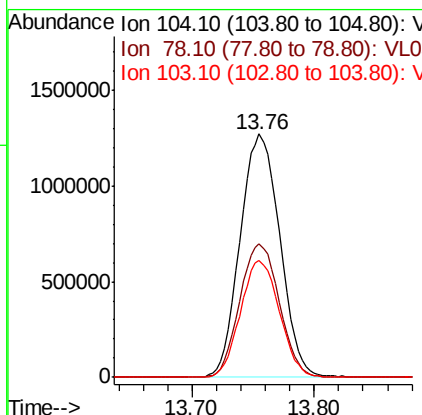
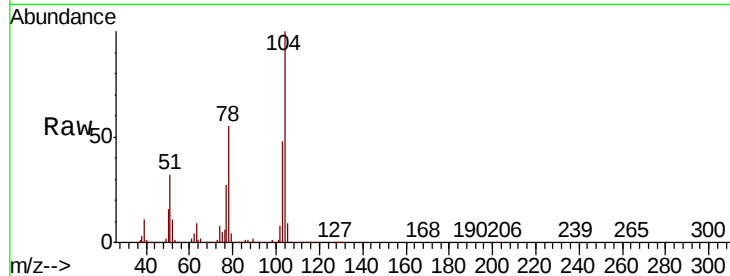
#61
Stvrene
Concen: 11.37 ppbv
RT: 13.76 min Scan# 3940
Delta R.T. 0.00 min
Lab File: VL032381.D
Acq: 16 Aug 2018 17:41

Instrument :
MSVOA_L
ClientSampleId :
VL0816ABSD01

Tot Ion	Ratio	Lower	Upper
104	100		
78	55.1	42.6	64.0
103	47.3	38.0	57.0

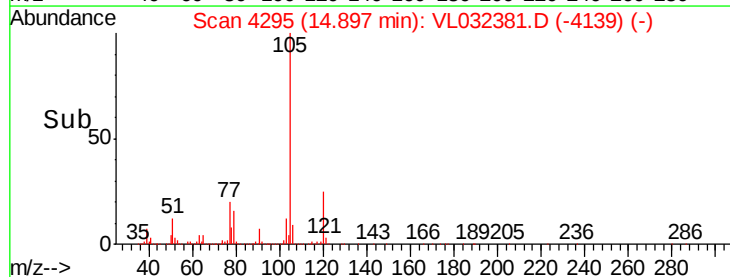
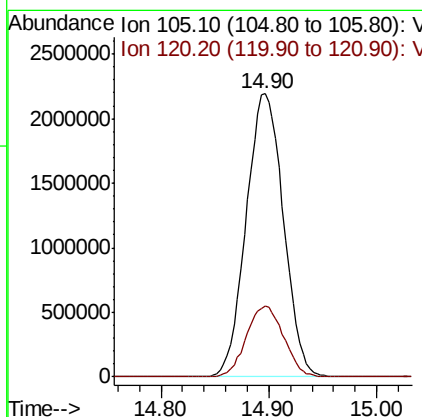
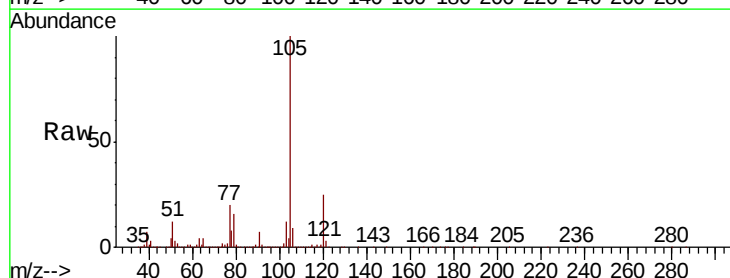
Manual Integrations
APPROVED

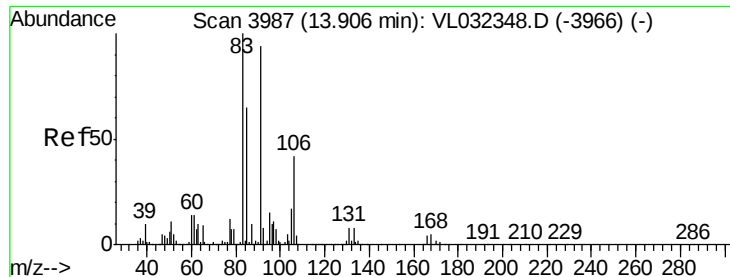
MMDadoda
8/28/2018 2:53:00 PM



#62
Isopropylbenzene
Concen: 10.27 ppbv
RT: 14.90 min Scan# 4295
Delta R.T. 0.00 min
Lab File: VL032381.D
Acq: 16 Aug 2018 17:41

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.0	20.6	30.8





#63

1,1,2,2-Tetrachloroethane

Concen: 9.16 ppbv

RT: 13.91 min Scan# 3987

Delta R.T. 0.00 min

Lab File: VL032381.D

Acq: 16 Aug 2018 17:41

Instrument :

MSVOA_L

ClientSampleId :

VL0816ABSD01

Tot Ion: 83 Resp: 2772528

Ion Ratio Lower Upper

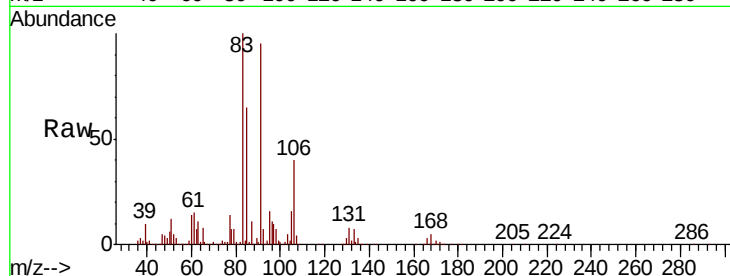
83 100

131 8.4 4.3 12.8

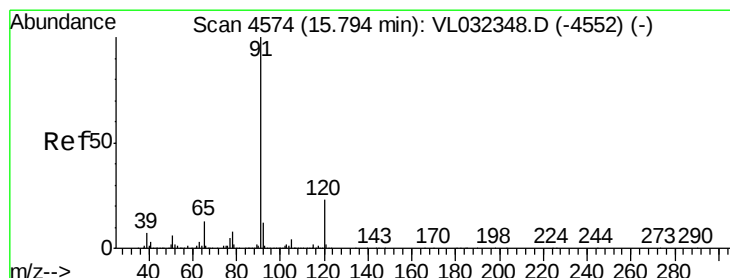
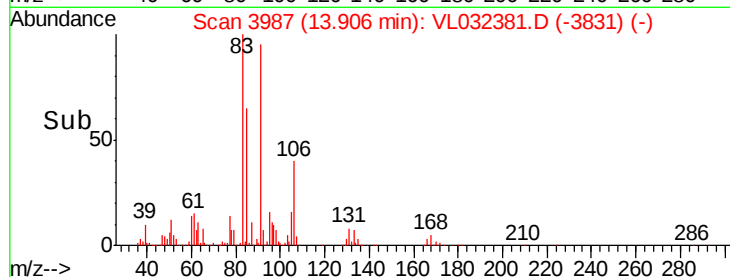
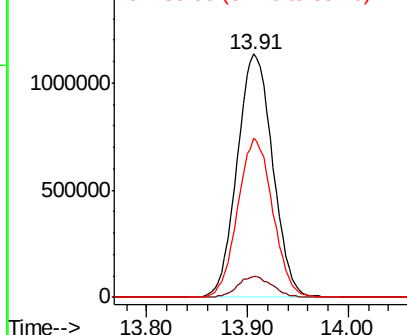
85 64.6 32.4 97.2

Manual Integrations
APPROVED

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8/28/2018 2:53:00 PM



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



#64

n-propylbenzene

Concen: 10.49 ppbv

RT: 15.79 min Scan# 4573

Delta R.T. -0.00 min

Lab File: VL032381.D

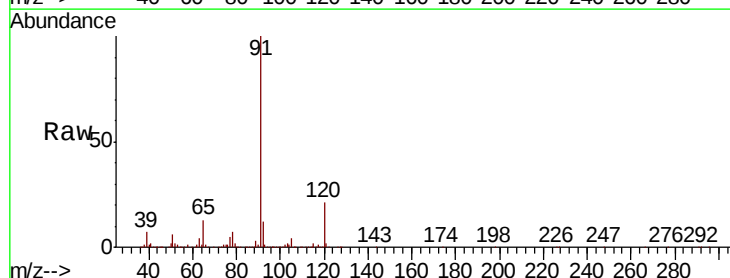
Acq: 16 Aug 2018 17:41

Tgt Ion:120 Resp: 1390903

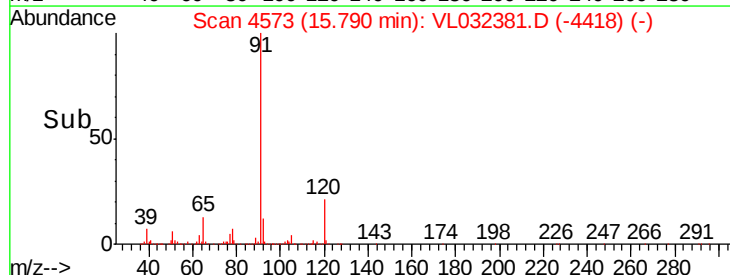
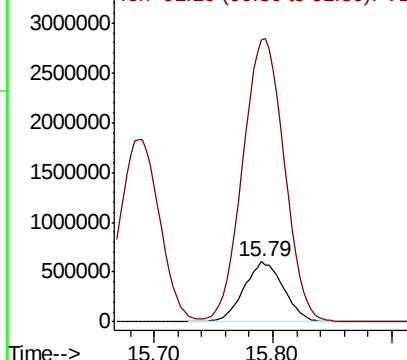
Ion Ratio Lower Upper

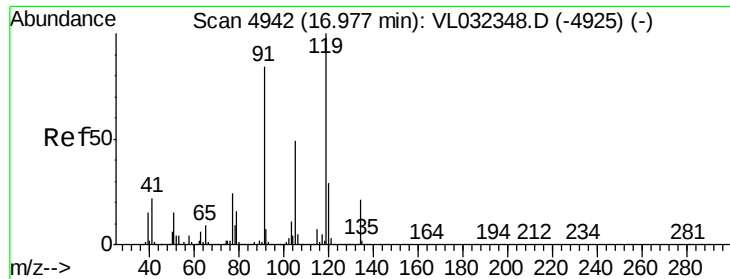
120 100

91 496.0 382.2 573.2



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





#65

tert-Butylbenzene

Concen: 9.80 ppbv

RT: 16.98 min Scan# 4942

Delta R.T. 0.00 min

Lab File: VL032381.D

Acq: 16 Aug 2018 17:41

Instrument :

MSVOA_L

ClientSampleId :

VL0816ABSD01

Tot Ion:119 Resp: 4286287

Ion Ratio Lower Upper

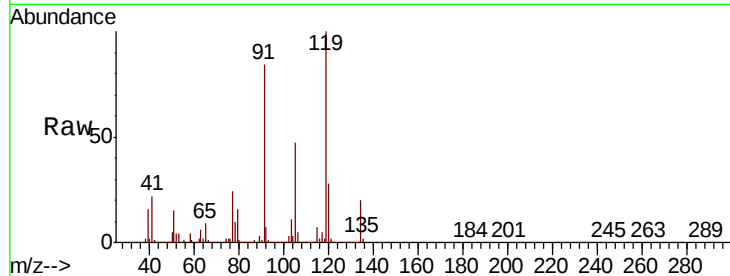
119 100

91 85.5 67.4 101.0

134 19.7 15.8 23.6

Manual Integrations
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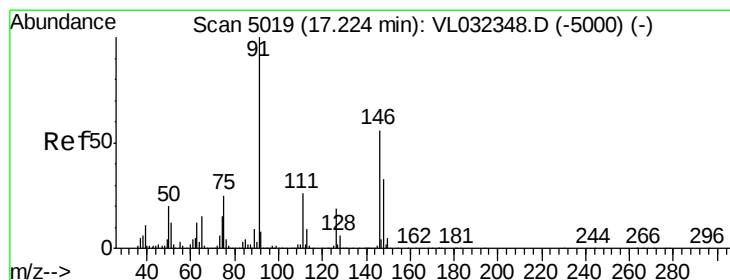
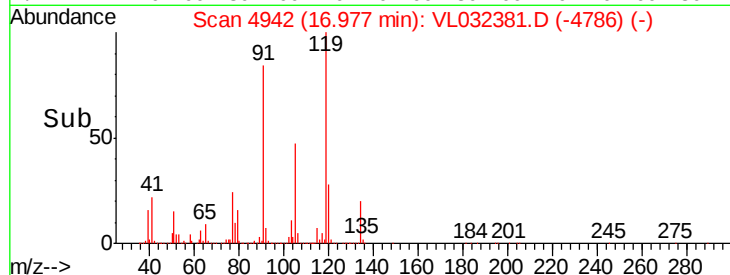
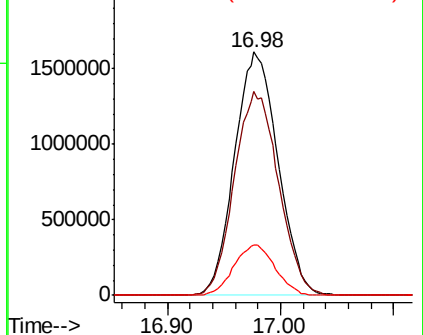
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 11.13 ppbv

RT: 17.23 min Scan# 5020

Delta R.T. 0.00 min

Lab File: VL032381.D

Acq: 16 Aug 2018 17:41

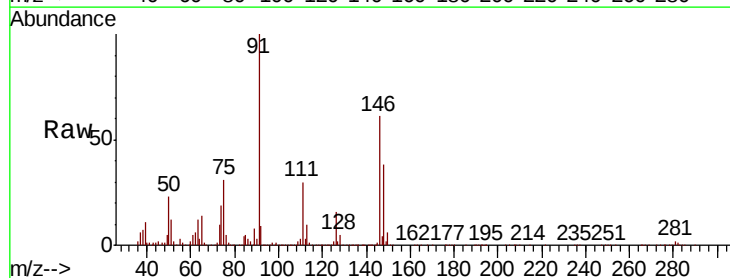
Tgt Ion: 91 Resp: 2883996

Ion Ratio Lower Upper

91 100

126 16.9 14.2 21.4

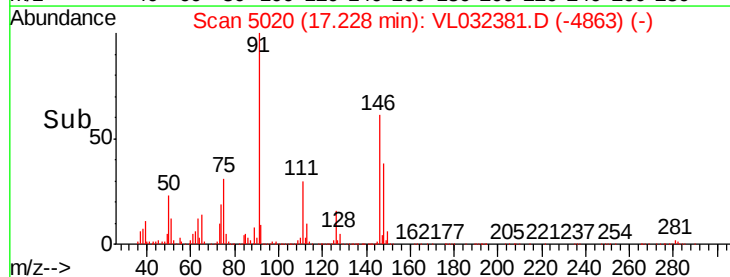
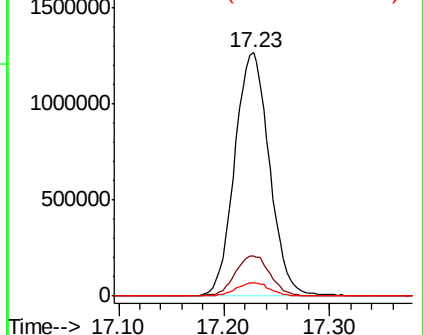
128 5.3 4.5 6.7

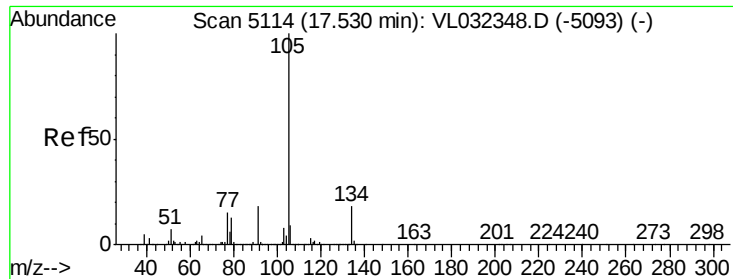


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.93 ppbv

RT: 17.53 min Scan# 5114

Delta R.T. 0.00 min

Lab File: VL032381.D

Acq: 16 Aug 2018 17:41

Instrument :

MSVOA_L

ClientSampleId :

VL0816ABSD01

Tot Ion: 105 Resp: 6458539

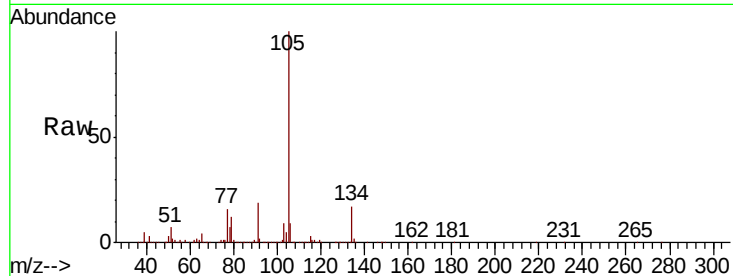
Ion Ratio Lower Upper

105 100

134 17.4 14.4 21.6

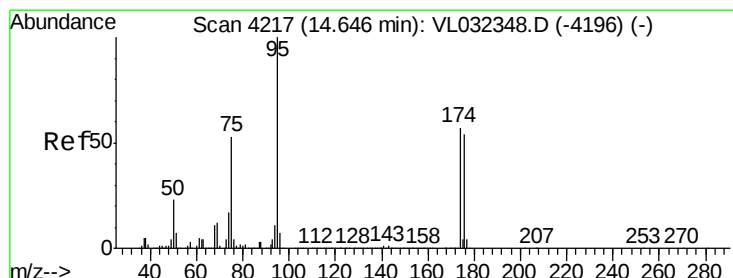
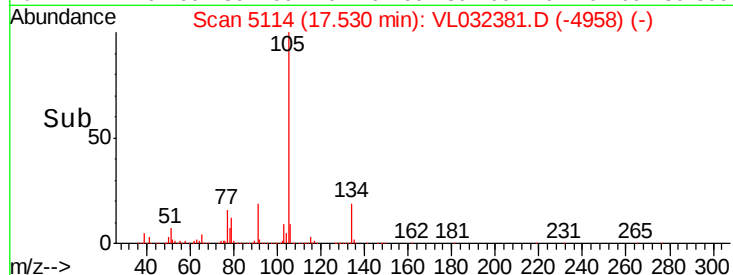
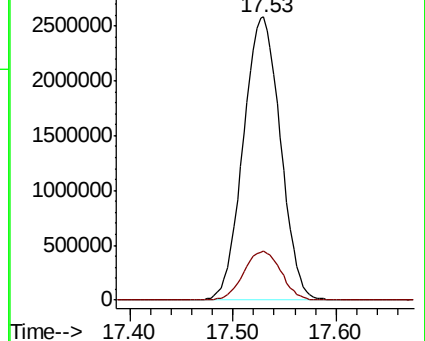
Manual Integrations
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.13 ppbv

RT: 14.65 min Scan# 4218

Delta R.T. 0.00 min

Lab File: VL032381.D

Acq: 16 Aug 2018 17:41

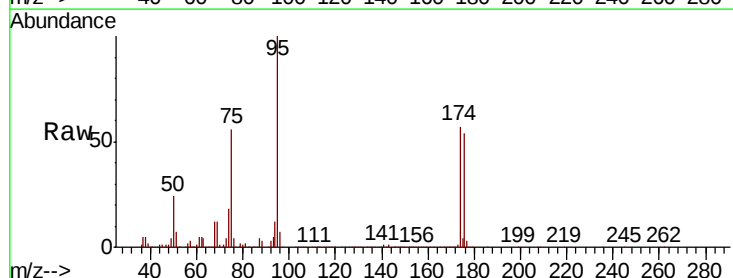
Tgt Ion: 95 Resp: 2768022

Ion Ratio Lower Upper

95 100

174 56.0 46.2 69.4

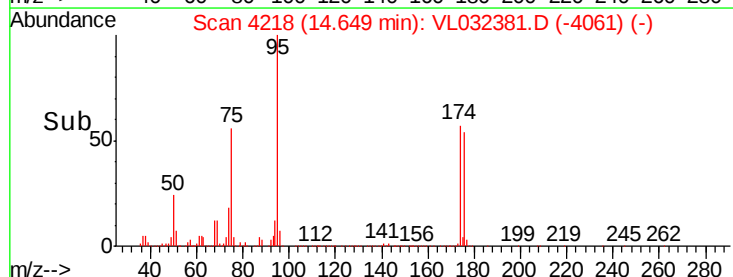
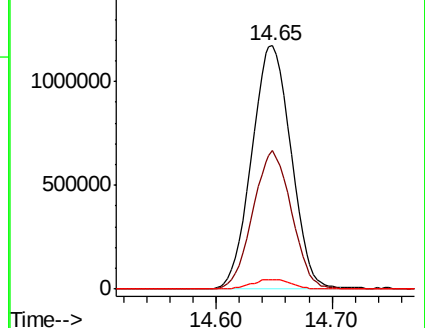
175 4.1 3.4 5.0

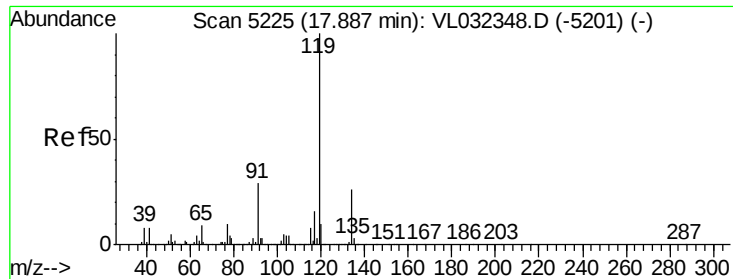


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





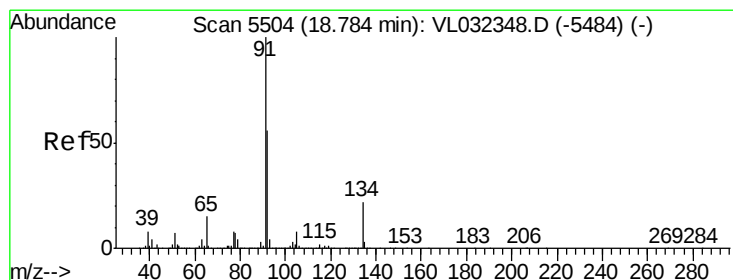
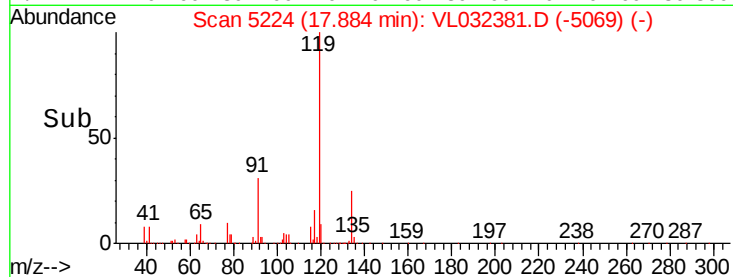
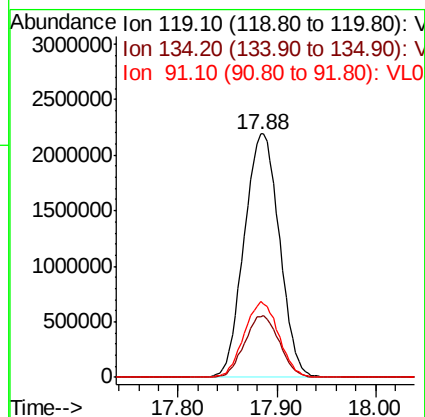
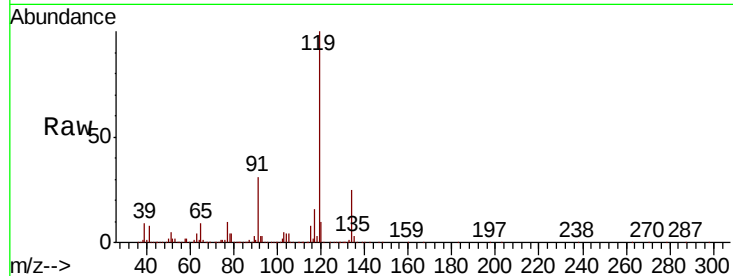
#69
 p-Isopropyltoluene
 Concen: 10.87 ppbv
 RT: 17.88 min Scan# 5224
 Delta R.T. -0.00 min
 Lab File: VL032381.D
 Acq: 16 Aug 2018 17:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0816ABSD01

Tot Ion:	119	Resp:	5411778
Ion	Ratio	Lower	Upper
119	100		
134	25.0	20.4	30.6
91	30.3	23.6	35.4

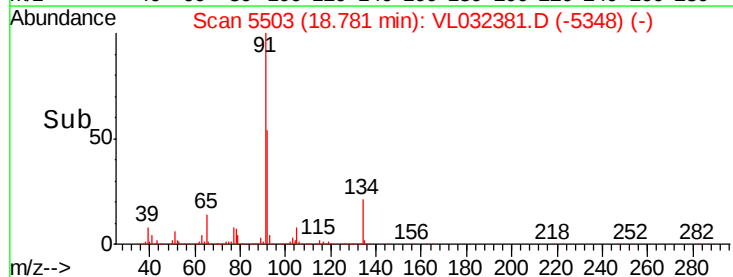
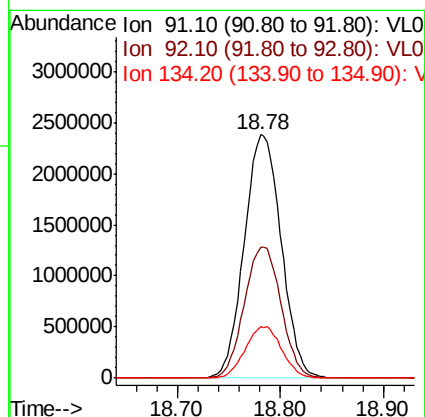
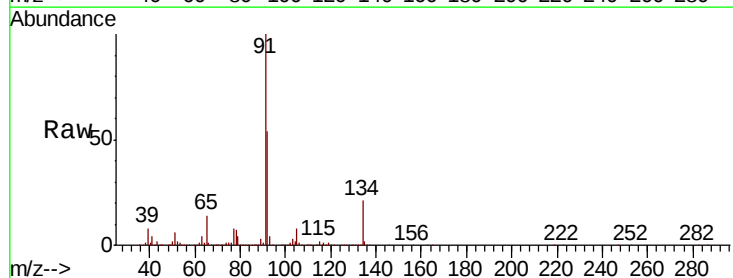
Manual Integrations
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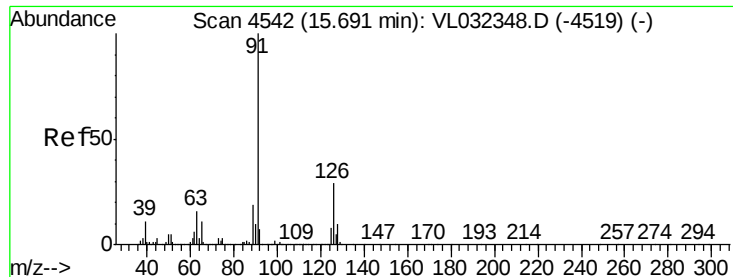
MMDadoda
 8/28/2018 2:53:00 PM



#70
 n-Butylbenzene
 Concen: 10.83 ppbv
 RT: 18.78 min Scan# 5503
 Delta R.T. -0.00 min
 Lab File: VL032381.D
 Acq: 16 Aug 2018 17:41

Tgt Ion:	91	Resp:	5912138
Ion	Ratio	Lower	Upper
91	100		
92	53.9	43.9	65.9
134	21.0	17.3	25.9





#71

2-Chlorotoluene

Concen: 10.99 ppbv

RT: 15.69 min Scan# 4542

Delta R.T. 0.00 min

Lab File: VL032381.D

Acq: 16 Aug 2018 17:41

Instrument :

MSVOA_L

ClientSampleId :

VL0816ABSD01

Tot Ion: 91 Resp: 4355730

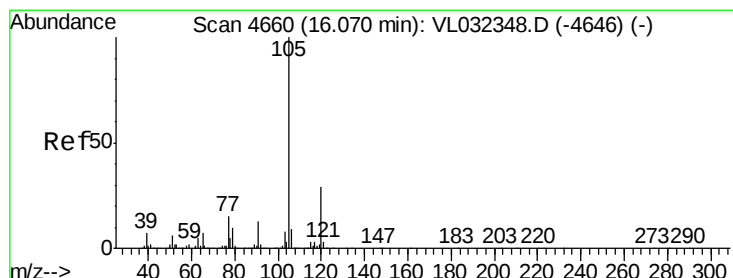
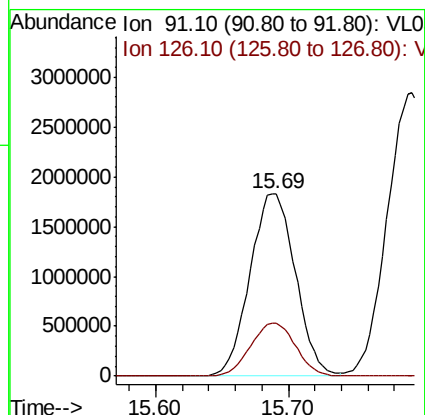
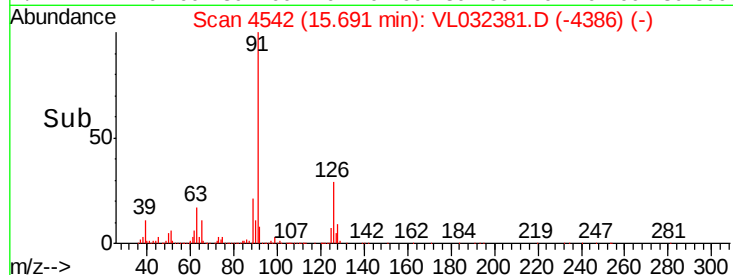
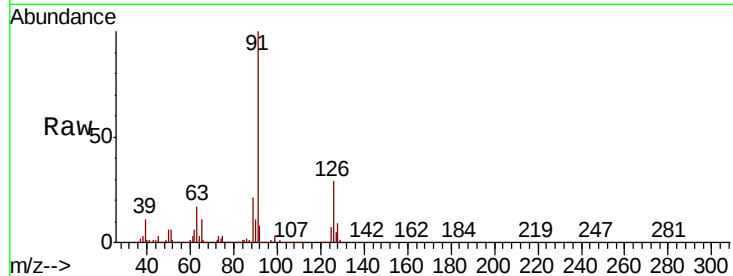
Ion Ratio Lower Upper

91 100

126 29.0 11.8 47.2

Manual Integrations
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#72

4-Ethyltoluene

Concen: 11.24 ppbv

RT: 16.07 min Scan# 4660

Delta R.T. 0.00 min

Lab File: VL032381.D

Acq: 16 Aug 2018 17:41

Tgt Ion:105 Resp: 4511789

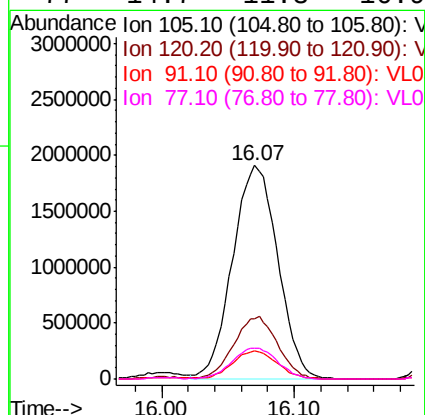
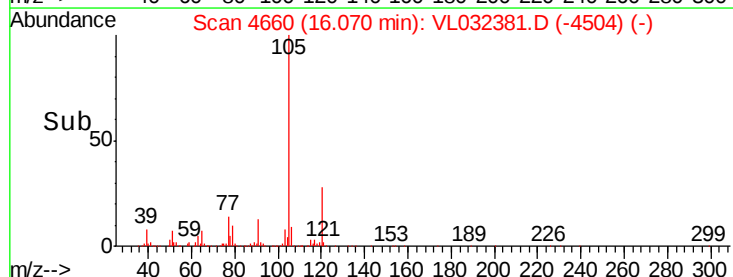
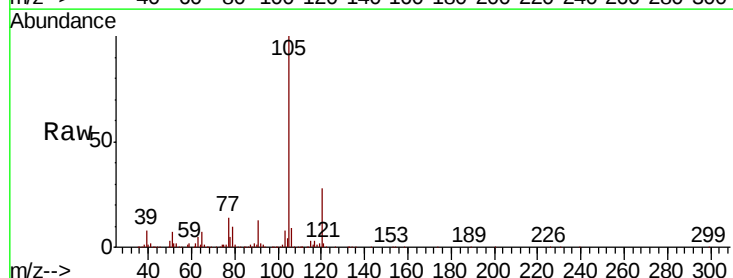
Ion Ratio Lower Upper

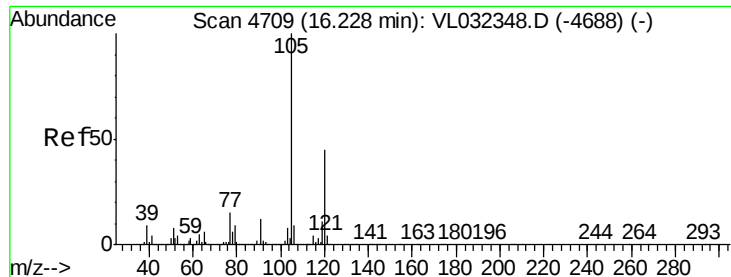
105 100

120 28.6 23.4 35.0

91 12.9 10.0 15.0

77 14.7 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 11.09 ppbv

RT: 16.22 min Scan# 4708

Delta R.T. -0.00 min

Lab File: VL032381.D

Acq: 16 Aug 2018 17:41

Instrument :

MSVOA_L

ClientSampleId :

VL0816ABSD01

Tot Ion:105 Resp: 4280876

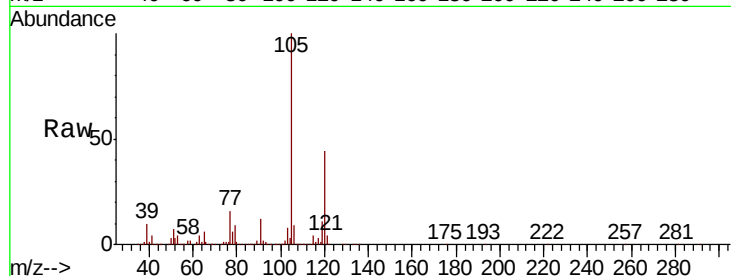
Ion Ratio Lower Upper

105 100

120 43.6 36.3 54.5

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8/28/2018 2:53:00 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.22

2000000

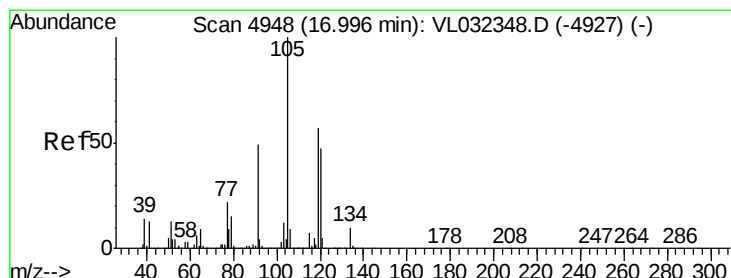
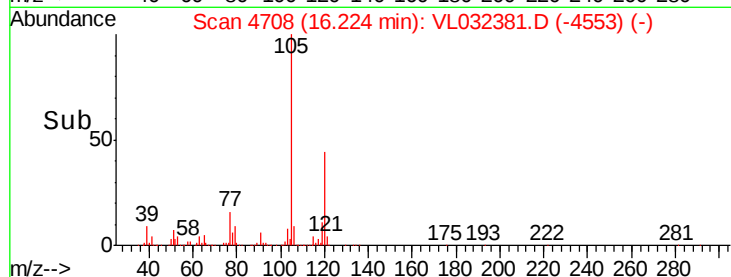
1500000

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 9.88 ppbv

RT: 17.00 min Scan# 4948

Delta R.T. 0.00 min

Lab File: VL032381.D

Acq: 16 Aug 2018 17:41

Tgt Ion:105 Resp: 4056141

Ion Ratio Lower Upper

105 100

120 45.7 37.6 56.4

91 49.0 39.9 59.9

77 22.8 17.8 26.8

Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

2500000

2000000

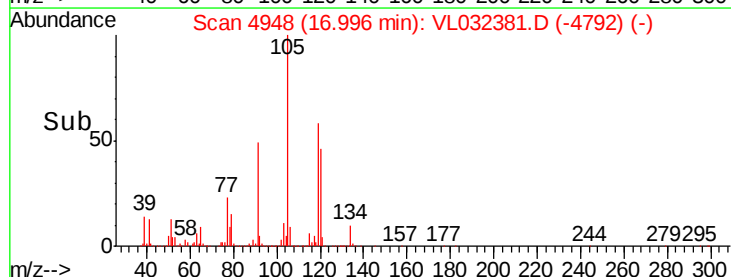
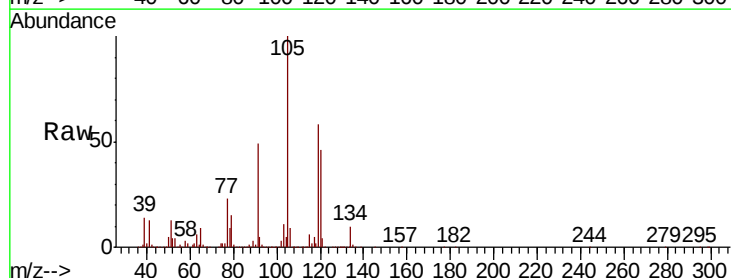
1500000

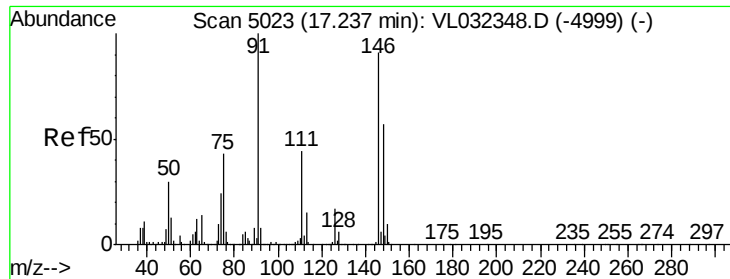
1000000

500000

0

Time-->





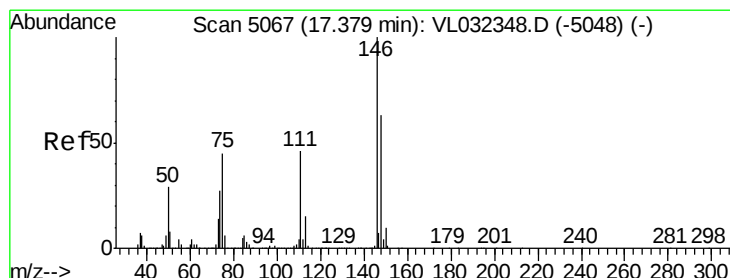
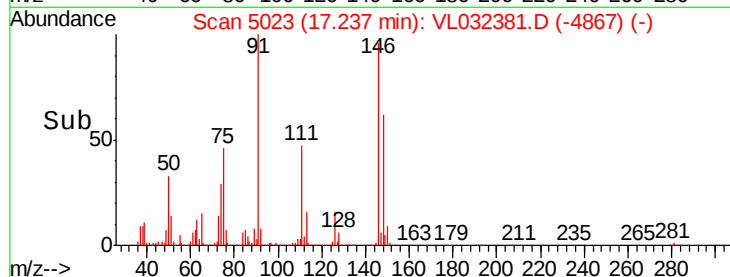
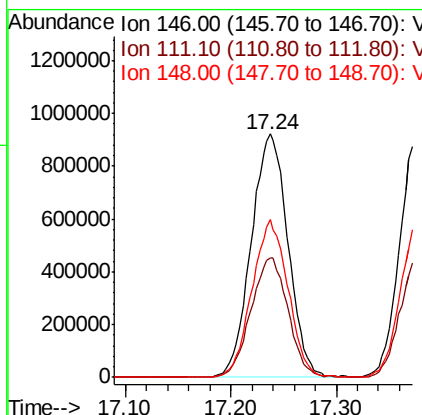
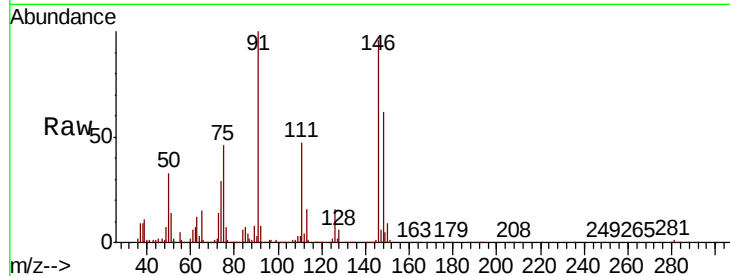
#75
 1,3-Dichlorobenzene
 Concen: 9.08 ppbv
 RT: 17.24 min Scan# 5023
 Delta R.T. 0.00 min
 Lab File: VL032381.D
 Acq: 16 Aug 2018 17:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0816ABSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.7	24.6	73.8
148	63.5	32.0	96.0

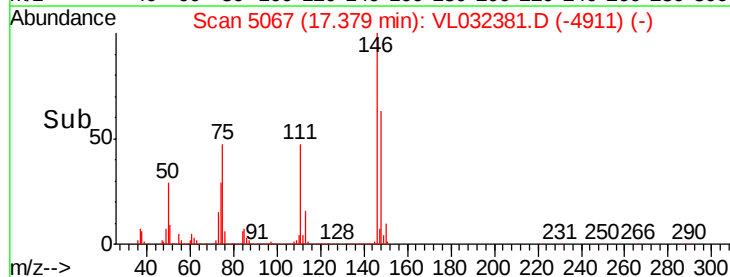
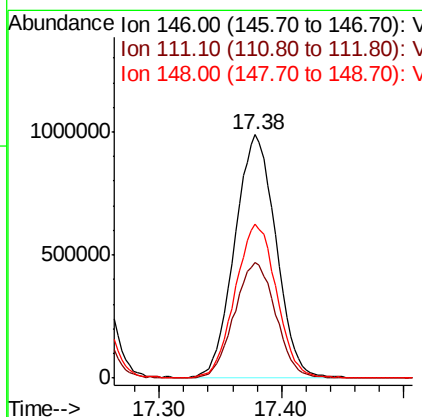
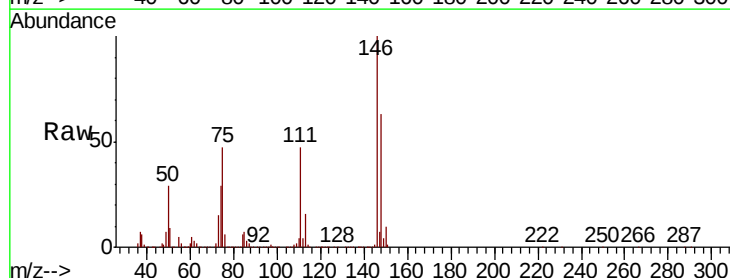
Manual Integrations
 APPROVED

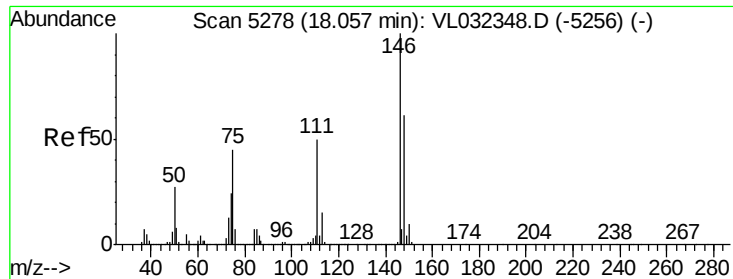
MMDadoda
 8/28/2018 2:53:00 PM



#76
 1,4-Dichlorobenzene
 Concen: 9.82 ppbv
 RT: 17.38 min Scan# 5067
 Delta R.T. 0.00 min
 Lab File: VL032381.D
 Acq: 16 Aug 2018 17:41

Tgt Ion	Ratio	Lower	Upper
146	100		
111	48.1	23.8	71.4
148	63.7	32.2	96.6





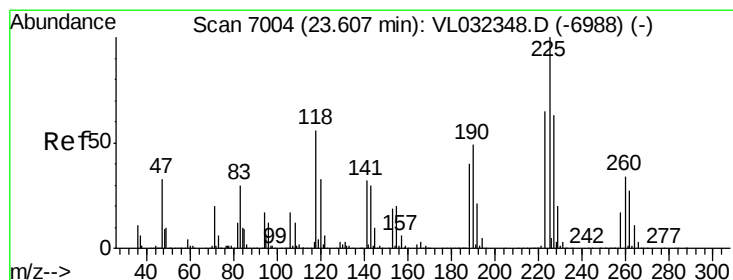
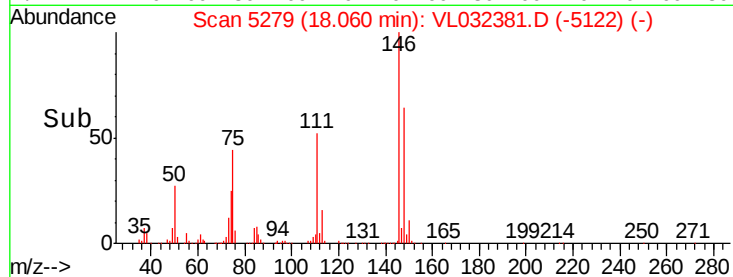
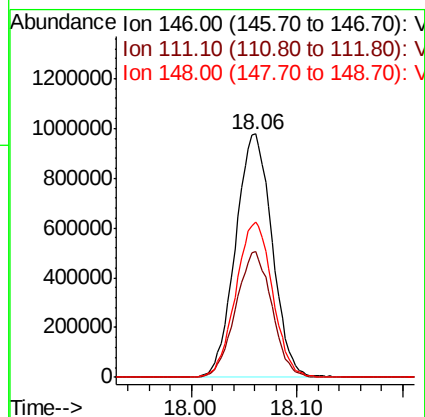
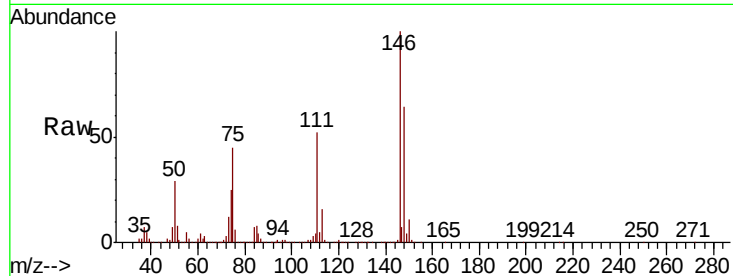
#77
 1,2-Dichlorobenzene
 Concen: 9.97 ppbv
 RT: 18.06 min Scan# 5279
 Delta R.T. 0.00 min
 Lab File: VL032381.D
 Acq: 16 Aug 2018 17:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0816ABSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	51.1	25.2	75.6
148	64.4	31.8	95.4

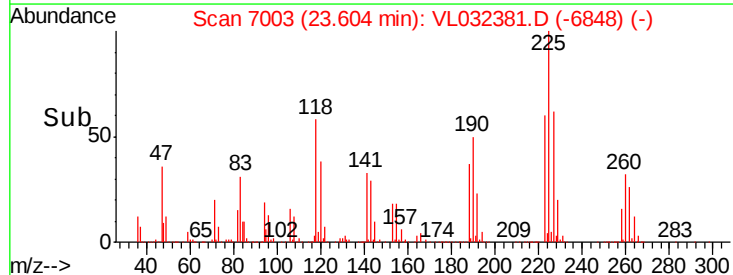
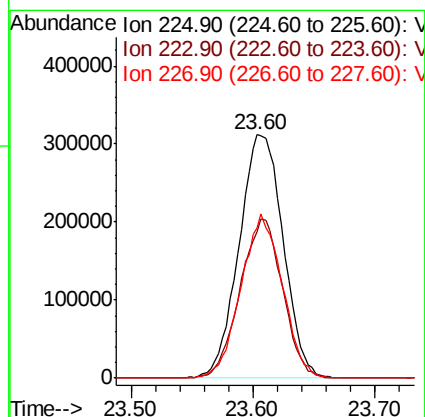
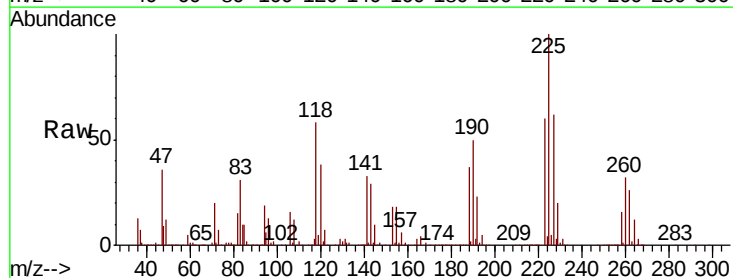
Manual Integrations
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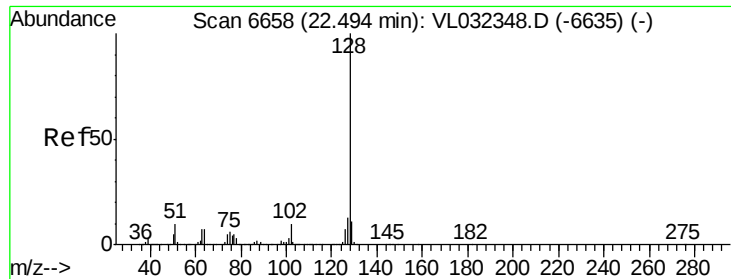
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#78
 Hexachloro-1,3-Butadiene
 Concen: 9.85 ppbv
 RT: 23.60 min Scan# 7003
 Delta R.T. -0.00 min
 Lab File: VL032381.D
 Acq: 16 Aug 2018 17:41

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.6	76.0
227	63.3	51.0	76.6





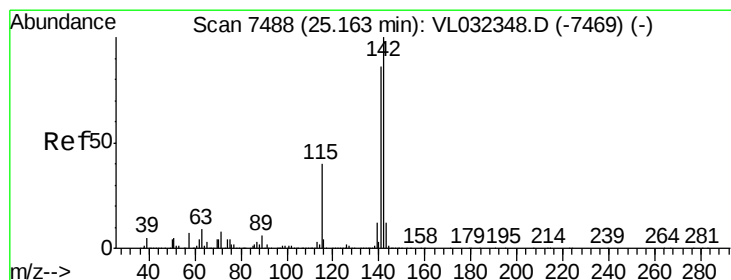
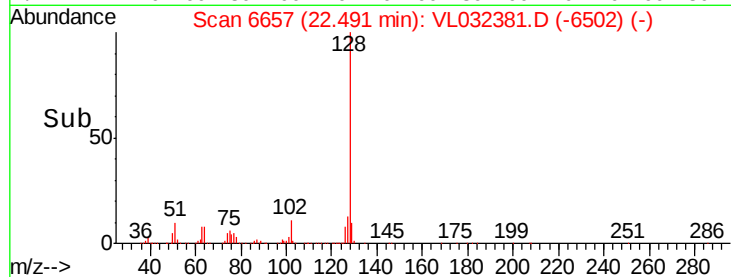
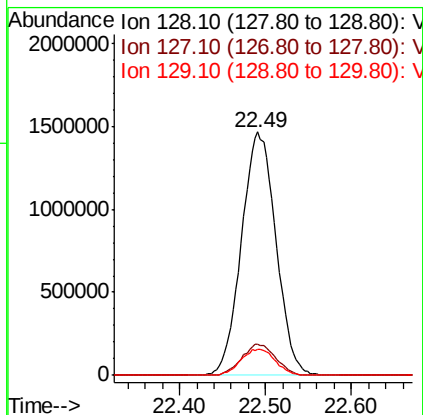
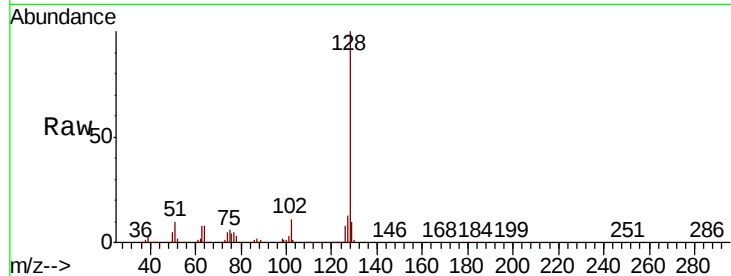
#79
Naphthalene
Concen: 13.63 ppbv
RT: 22.49 min Scan# 6657
Delta R.T. -0.00 min
Lab File: VL032381.D
Acq: 16 Aug 2018 17:41

Instrument :
MSVOA_L
ClientSampleId :
VL0816ABSD01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	10.5	8.6	13.0

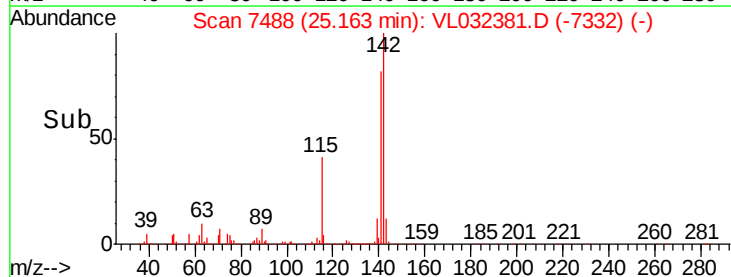
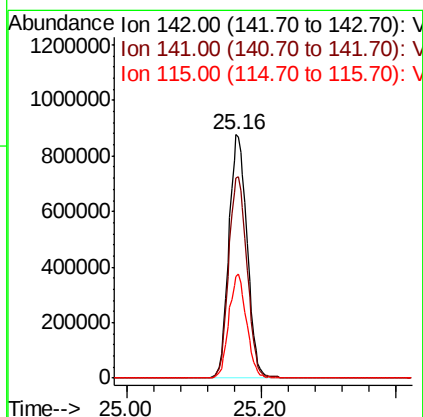
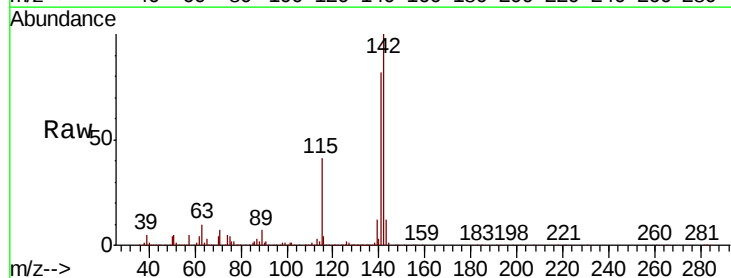
Manual Integrations
APPROVED

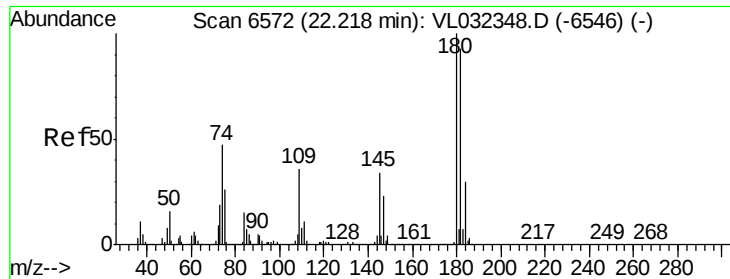
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8/28/2018 2:53:00 PM



#80
Naphthalene, 2-methyl-
Concen: 20.10 ppbv
RT: 25.16 min Scan# 7488
Delta R.T. 0.00 min
Lab File: VL032381.D
Acq: 16 Aug 2018 17:41

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.4	66.7	100.1
115	41.5	31.0	46.6





#81
 1,2,4-Trichlorobenzene
 Concen: 11.80 ppbv
 RT: 22.22 min Scan# 6572
 Delta R.T. 0.00 min
 Lab File: VL032381.D
 Acq: 16 Aug 2018 17:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0816ABSD01

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.0	76.1	114.1
184	30.7	24.2	36.2

Manual Integrations
 APPROVED

MMDadoda
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