

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091018\
 Data File : VL032481.D
 Acq On : 10 Sep 2018 14:58
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 9/12/2018 3:59:32 PM

Quant Time: Sep 11 01:15:20 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31

QLast Update : Fri Aug 31 21:33:46 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.80	49	1570944	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.34	114	3718375	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.29	117	3696782m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.62	95	2804927	10.22	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.10	85	1735128	8.63	ppbv	99
3) Chlorodifluoromethane	3.04	51	1214724	8.54	ppbv	98
4) Chloromethane	3.20	50	720580	8.37	ppbv	100
5) Vinyl Chloride	3.32	62	687799	8.09	ppbv	99
6) Bromomethane	3.54	94	402863	9.03	ppbv	98
7) Chloroethane	3.63	64	257772	8.76	ppbv	98
8) Dichlorotetrafluoroethane	3.25	85	1428212	8.01	ppbv	99
9) Propene	3.06	41	611877	10.67	ppbv	99
10) Heptane	8.29	43	2377433	11.55	ppbv	100
11) Trichlorofluoromethane	4.04	101	1458569	8.05	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.59	101	1259913	10.26	ppbv	99
13) Ethanol	3.68	45	135977	7.60	ppbv	93
14) Bromoethene	3.82	108	462077	8.88	ppbv	99
15) Acetone	3.93	43	1171022	8.28	ppbv	100
16) 1,3-Butadiene	3.39	39	607156	9.12	ppbv	91
17) tert-Butyl alcohol	4.39	59	214619	9.86	ppbv #	100
18) 1,1-Dichloroethene	4.39	96	614462	10.95	ppbv	96
19) Isopropyl Alcohol	4.06	45	861275	9.28	ppbv #	98
20) Methylene Chloride	4.44	84	542621	10.06	ppbv	97
21) Allyl Chloride	4.51	41	1107946	11.79	ppbv	99
22) trans-1,2-Dichloroethene	5.00	96	596594	9.80	ppbv	99
23) Vinyl Acetate	5.19	43	2694971	11.49	ppbv	99
24) 1,1-Dichloroethane	5.13	63	1878642	9.72	ppbv	99
25) Ethyl Acetate	5.81	43	3196641	9.57	ppbv	100
26) Hexane	5.82	57	1466823	9.81	ppbv	98
27) Carbon Disulfide	4.66	76	1580752	11.45	ppbv	99
28) Methyl tert-Butyl Ether	5.15	73	2104024	11.46	ppbv	99
29) Chloroform	5.89	83	2143175	9.40	ppbv	99
30) Cyclohexane	7.29	84	1347642	12.30	ppbv	99
31) cis-1,2-Dichloroethene	5.68	61	1492016	11.02	ppbv	98
32) 1,1,1-Trichloroethane	6.66	97	2030098	9.55	ppbv	98
34) 2-Butanone	5.36	43	2211061	8.95	ppbv	100
35) Carbon Tetrachloride	7.18	117	2295689	9.19	ppbv	99
36) Benzene	7.05	78	3250700	10.27	ppbv	99
37) 1,2-Dichloroethane	6.45	62	1591498	8.21	ppbv	100
38) Trichloroethene	8.01	130	1154422	9.60	ppbv	94
39) 1,2-Dichloropropane	7.78	63	1403922	10.37	ppbv	98
40) 1,4-Dioxane	8.00	88	454687	11.19	ppbv	82
41) Tetrahydrofuran	6.19	42	1361815	10.13	ppbv	100
42) Bromodichloromethane	7.96	83	2644824	9.89	ppbv	99
43) Methyl Methacrylate	8.18	69	1445153	10.76	ppbv	98

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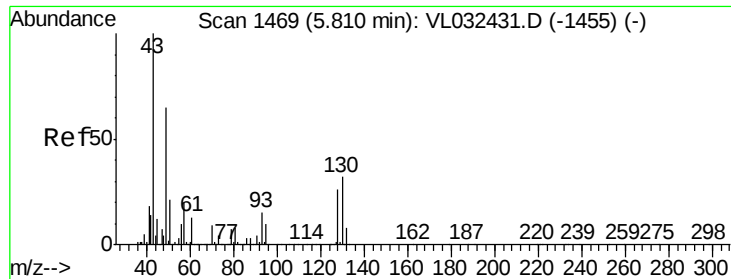
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31

QLast Update : Fri Aug 31 21:33:46 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.04	57	6021089	9.84	ppbv	99
45) t-1,3-Dichloropropene	9.46	75	1876263	13.06	ppbv	99
46) cis-1,3-Dichloropropene	8.88	75	2097563	11.43	ppbv	99
47) 1,1,2-Trichloroethane	9.66	97	1421777	9.88	ppbv	99
48) Dibromochloromethane	10.50	129	2260233	11.34	ppbv	99
49) Bromoform	13.25	173	1691992	9.76	ppbv	100
50) 4-Methyl-2-Pentanone	8.91	43	3620050	9.73	ppbv	100
51) 2-Hexanone	10.32	43	3175212	13.25	ppbv #	100
52) Tetrachloroethene	11.42	164	970427	9.89	ppbv	96
53) Toluene	9.99	91	4050470	12.25	ppbv	100
54) 1,2-Dibromoethane	10.81	107	2095388	10.84	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.33	131	1423400	8.54	ppbv	98
57) Chlorobenzene	12.35	112	2602198	8.81	ppbv	99
58) Ethyl Benzene	12.91	91	4877792	11.03	ppbv	99
59) m/p-Xylene	13.20	91	7896852m	20.02	ppbv	
60) o-Xylene	13.90	91	3854015	9.95	ppbv	100
61) Styrene	13.73	104	2947802	11.75	ppbv	100
62) Isopropylbenzene	14.88	105	5418112	9.95	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.88	83	2882947	8.32	ppbv	100
64) n-propylbenzene	15.77	120	1411008	9.91	ppbv	96
65) tert-Butylbenzene	16.96	119	4567797	9.73	ppbv	100
66) Benzyl Chloride	17.20	91	2926649	11.19	ppbv	100
67) sec-Butylbenzene	17.51	105	6868856	9.73	ppbv	99
69) p-Isopropyltoluene	17.86	119	5445363	9.96	ppbv	100
70) n-Butylbenzene	18.76	91	6035402	9.73	ppbv	99
71) 2-Chlorotoluene	15.67	91	4330627	10.41	ppbv	99
72) 4-Ethyltoluene	16.05	105	4520113	10.69	ppbv	99
73) 1,3,5-Trimethylbenzene	16.21	105	4305523	10.16	ppbv	95
74) 1,2,4-Trimethylbenzene	16.97	105	4308243	9.30	ppbv	95
75) 1,3-Dichlorobenzene	17.21	146	2420251	8.80	ppbv	99
76) 1,4-Dichlorobenzene	17.35	146	2427167	9.52	ppbv	99
77) 1,2-Dichlorobenzene	18.04	146	2394948	9.03	ppbv	100
78) Hexachloro-1,3-Butadiene	23.59	225	854987	8.63	ppbv	99
79) Naphthalene	22.47	128	3982966	10.57	ppbv	99
80) Naphthalene, 2-methyl-	25.15	142	1437268	14.34	ppbv	99
81) 1,2,4-Trichlorobenzene	22.19	180	1892772	9.98	ppbv	100

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.80 min Scan# 891

Delta R.T. -0.01 min

Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 49 Resp: 1570944

Ion Ratio Lower Upper

49 100

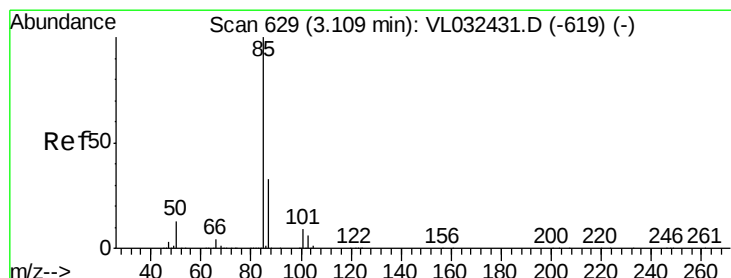
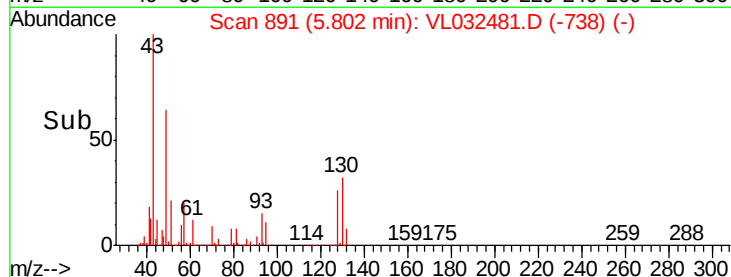
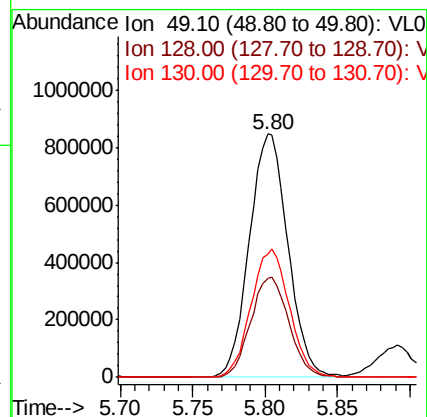
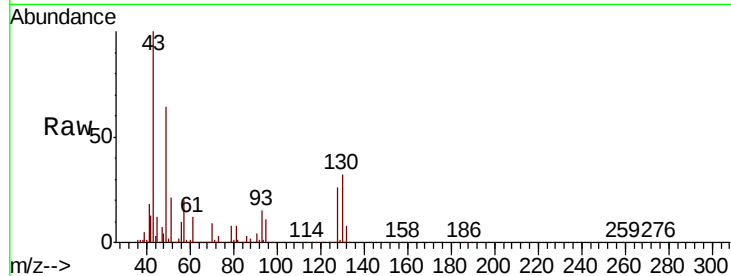
128 41.0 20.7 62.1

130 52.6 26.6 79.7

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#2

Dichlorodifluoromethane

Concen: 8.63 ppbv

RT: 3.10 min Scan# 51

Delta R.T. -0.01 min

Lab File: VL032481.D

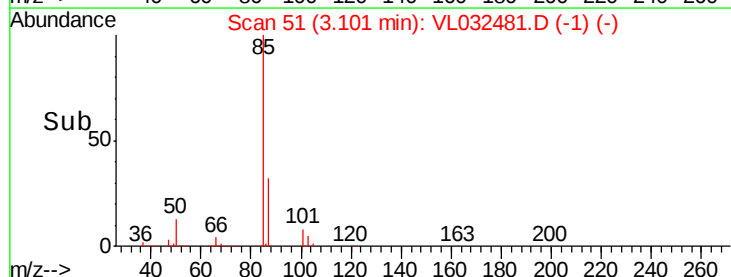
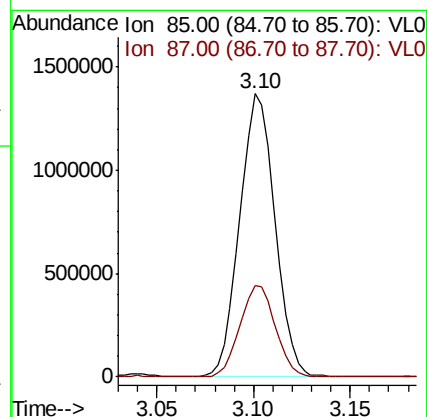
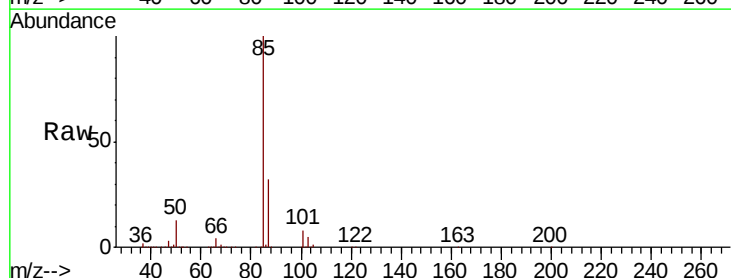
Acq: 10 Sep 2018 14:58

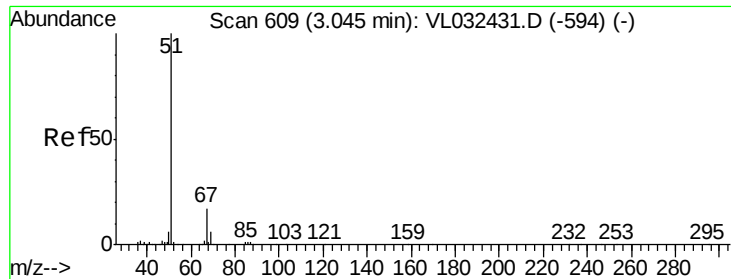
Tgt Ion: 85 Resp: 1735128

Ion Ratio Lower Upper

85 100

87 32.2 26.2 39.4





#3

Chlorodifluoromethane

Concen: 8.54 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.01 min

Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 51 Resp: 1214724

Ion Ratio Lower Upper

51 100

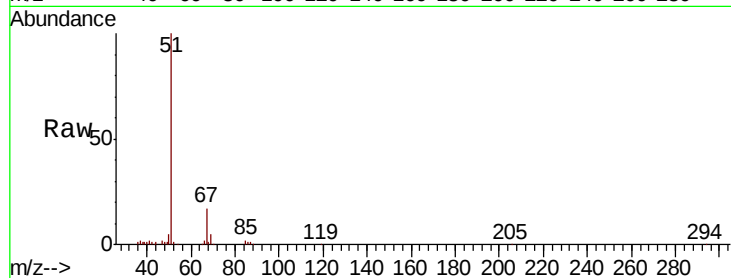
67 16.4 13.8 20.8

Manual Integrations

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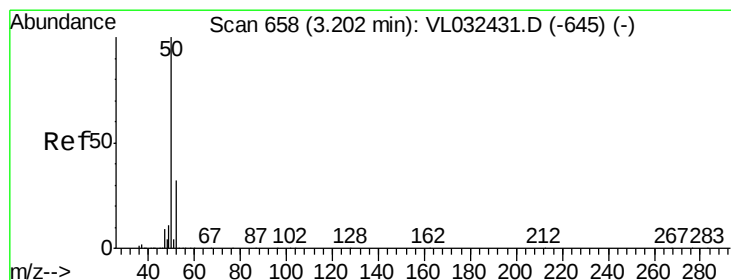
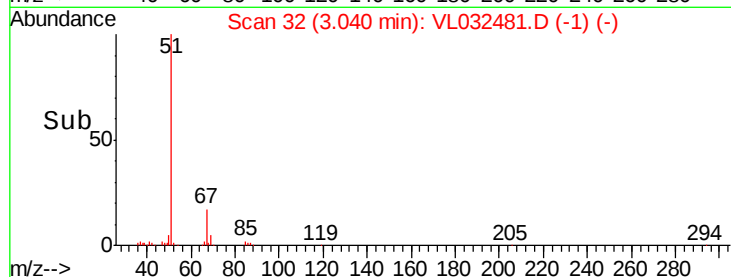
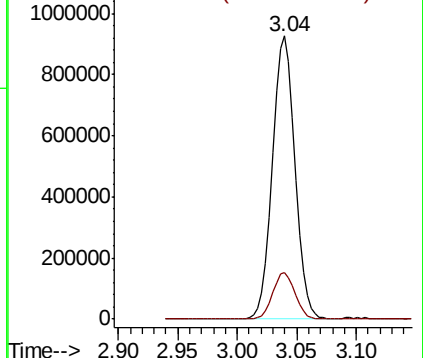
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 8.37 ppbv

RT: 3.20 min Scan# 81

Delta R.T. -0.01 min

Lab File: VL032481.D

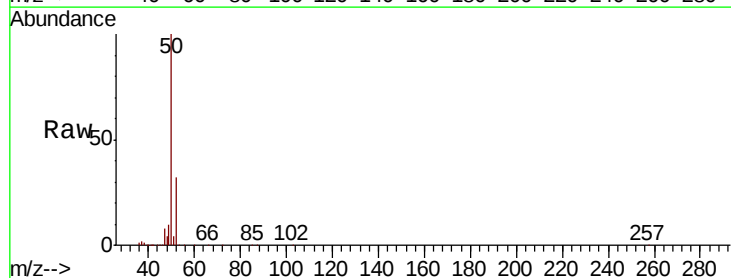
Acq: 10 Sep 2018 14:58

Tgt Ion: 50 Resp: 720580

Ion Ratio Lower Upper

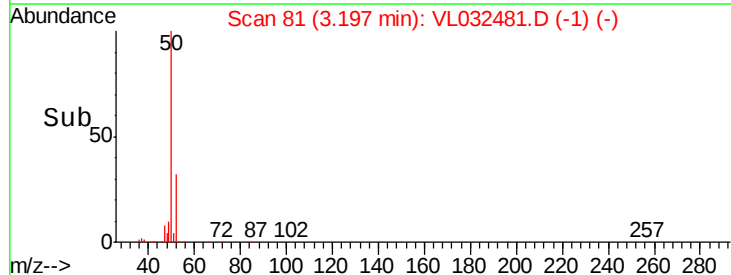
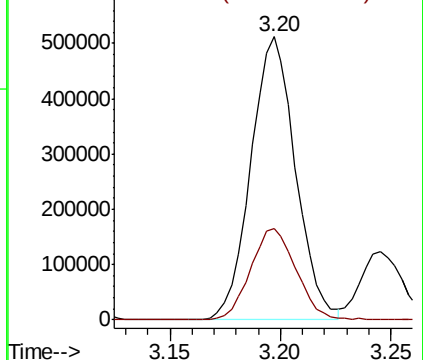
50 100

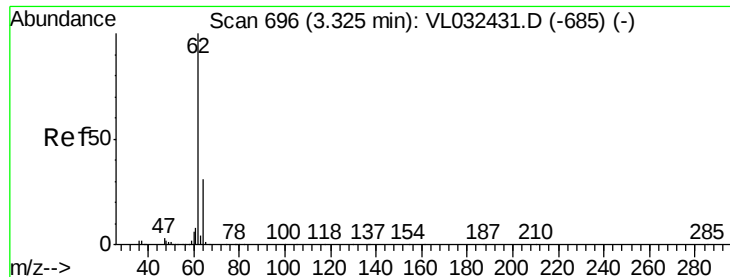
52 32.2 25.6 38.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.09 ppbv

RT: 3.32 min Scan# 119

Delta R.T. -0.01 min

Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

Instrument :

MSVOA_L

ClientSampleID :

VSTDCCC010

Tot Ion: 62 Resp: 687799

Ion Ratio Lower Upper

62 100

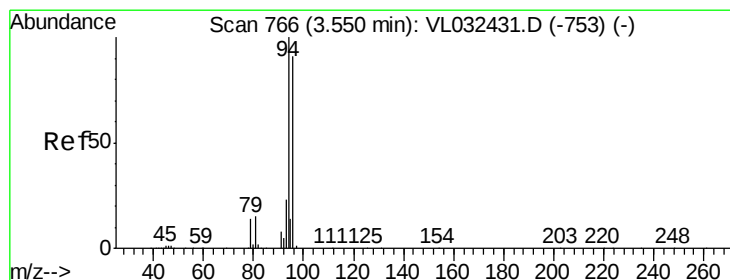
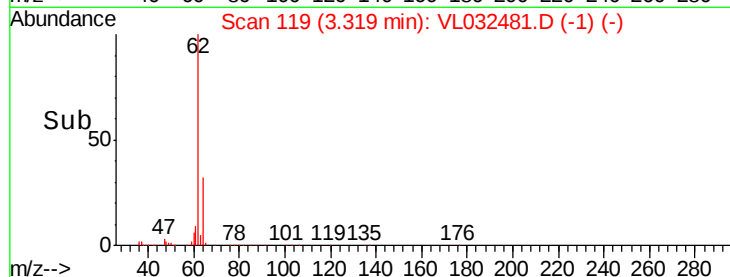
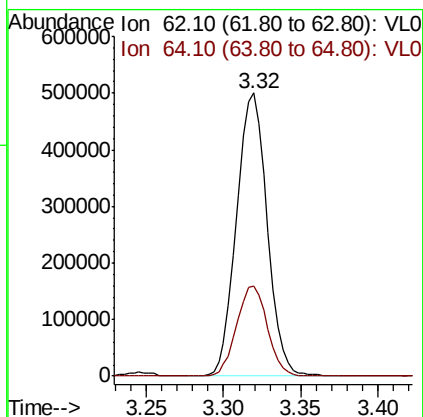
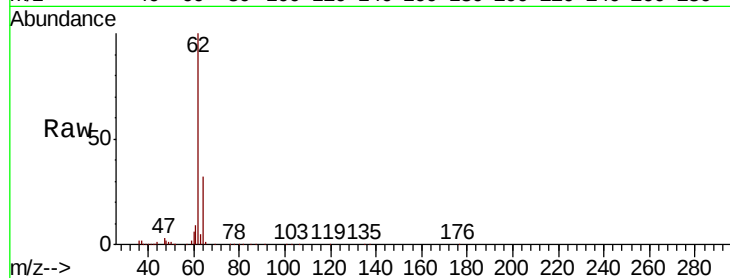
64 32.0 25.0 37.6

Manual Integrations

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#6

Bromomethane

Concen: 9.03 ppbv

RT: 3.54 min Scan# 188

Delta R.T. -0.01 min

Lab File: VL032481.D

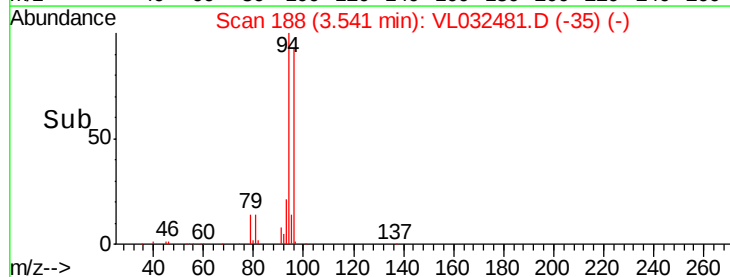
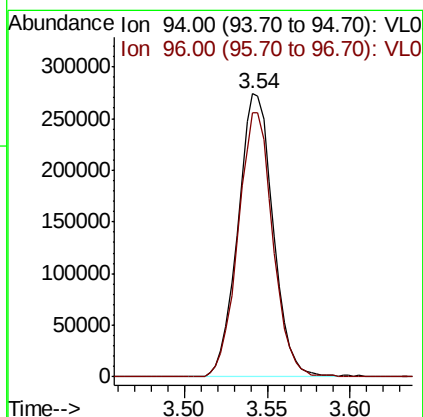
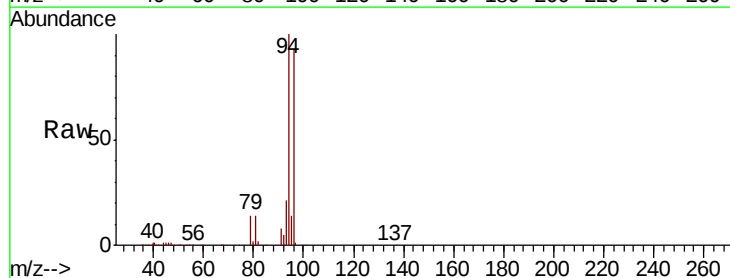
Acq: 10 Sep 2018 14:58

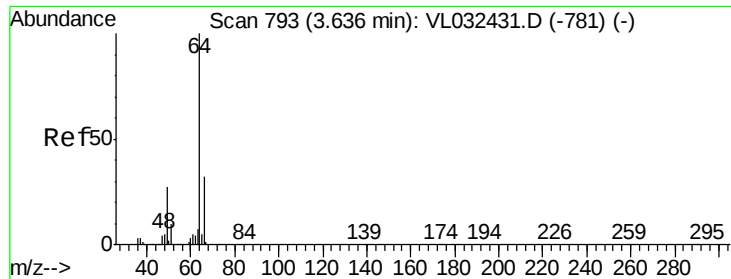
Tgt Ion: 94 Resp: 402863

Ion Ratio Lower Upper

94 100

96 93.1 72.8 109.2





#7

Chloroethane

Concen: 8.76 ppbv

RT: 3.63 min Scan# 215

Delta R.T. -0.01 min

Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 257772

Ion Ratio Lower Upper

64 100

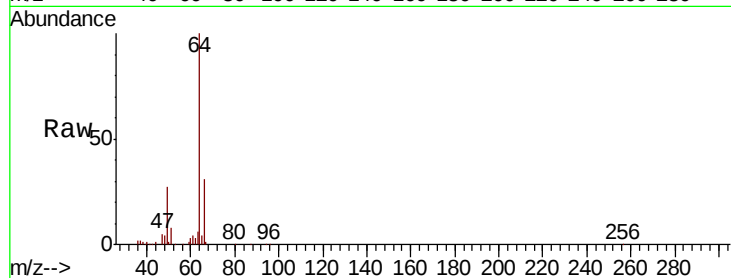
66 30.8 25.8 38.6

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.63

200000

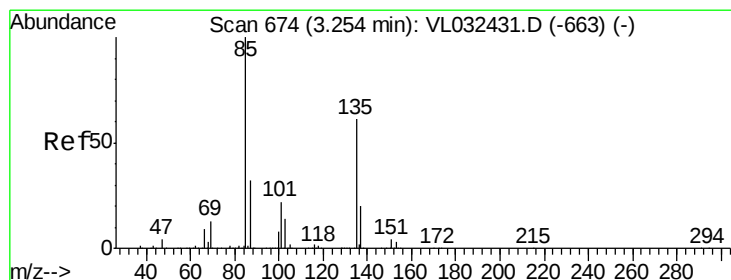
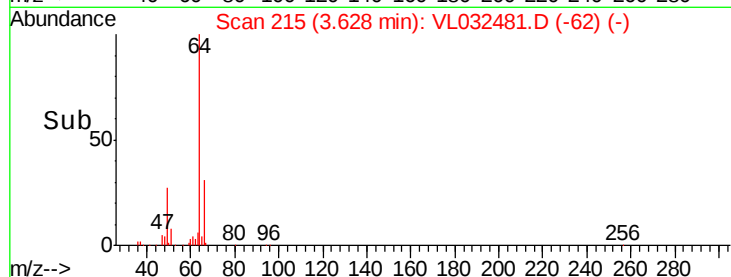
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 8.01 ppbv

RT: 3.25 min Scan# 96

Delta R.T. -0.01 min

Lab File: VL032481.D

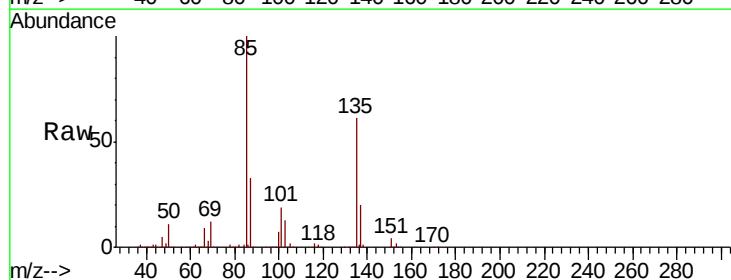
Acq: 10 Sep 2018 14:58

Tgt Ion: 85 Resp: 1428212

Ion Ratio Lower Upper

85 100

135 61.5 48.6 72.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.25

1200000

1000000

800000

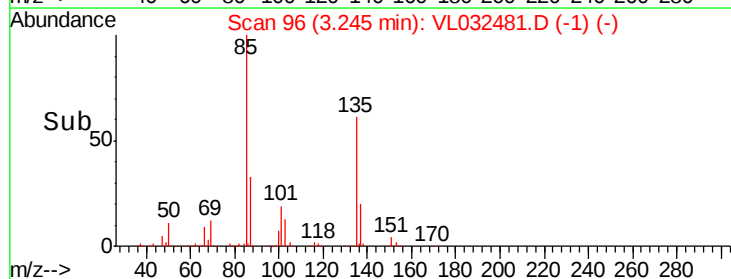
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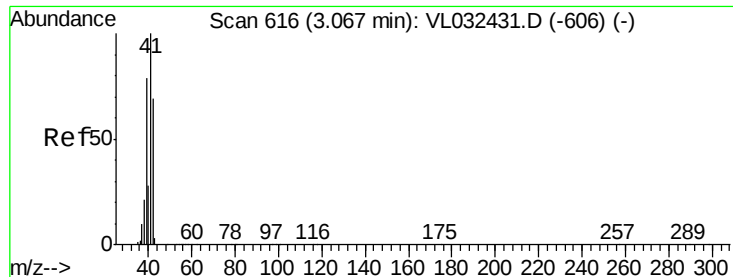
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Time-->





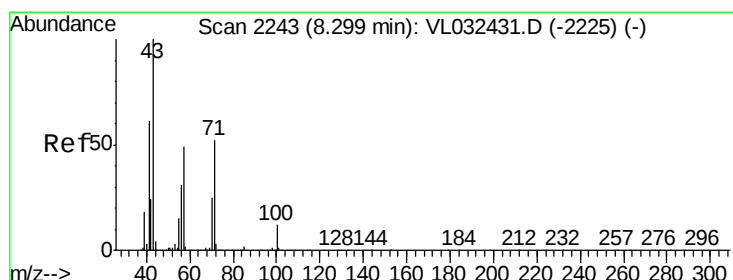
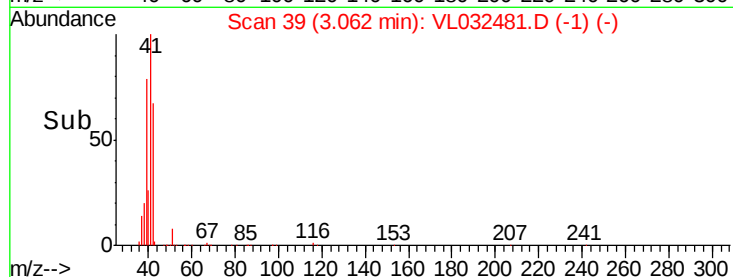
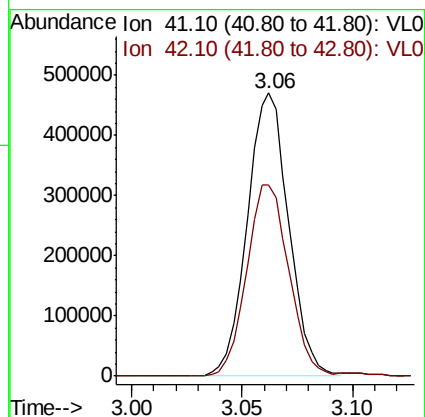
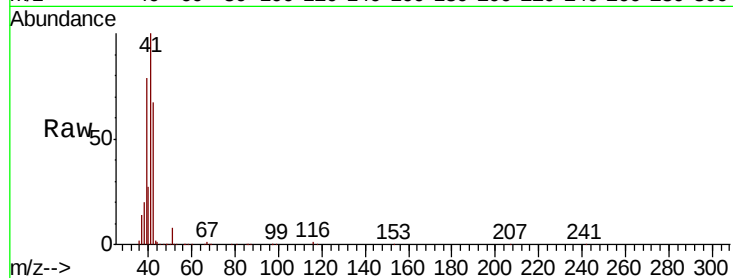
#9
 Propene
 Concen: 10.67 ppbv
 RT: 3.06 min Scan# 39
 Delta R.T. -0.01 min
 Lab File: VL032481.D
 Acq: 10 Sep 2018 14:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 41 Resp: 611877
 Ion Ratio Lower Upper
 41 100
 42 70.2 56.6 84.8

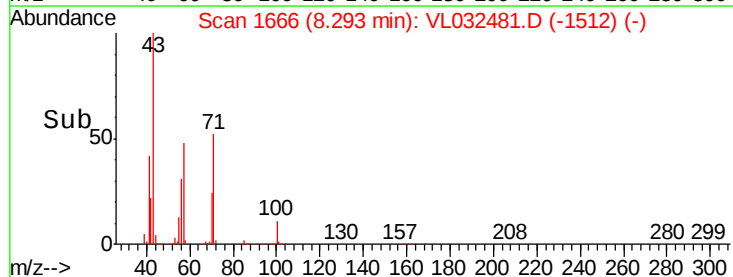
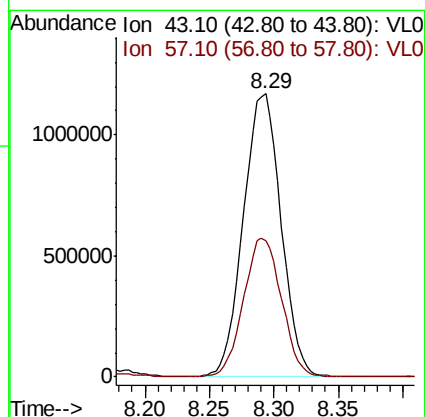
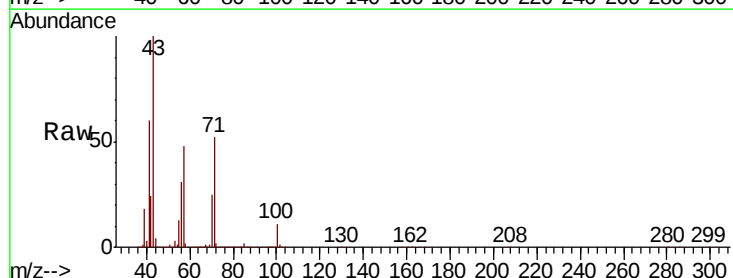
Manual Integrations
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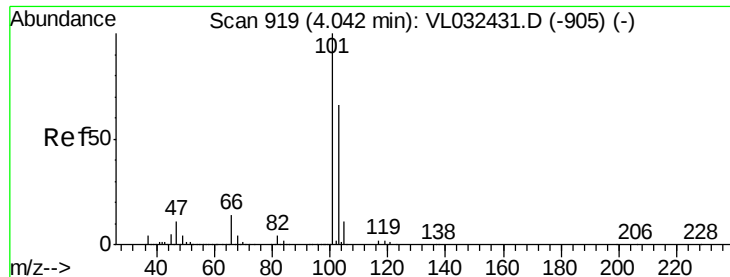
MMDadoda
 9/12/2018 3:59:32 PM



#10
 Heptane
 Concen: 11.55 ppbv
 RT: 8.29 min Scan# 1666
 Delta R.T. -0.01 min
 Lab File: VL032481.D
 Acq: 10 Sep 2018 14:58

Tgt Ion: 43 Resp: 2377433
 Ion Ratio Lower Upper
 43 100
 57 49.3 39.6 59.4





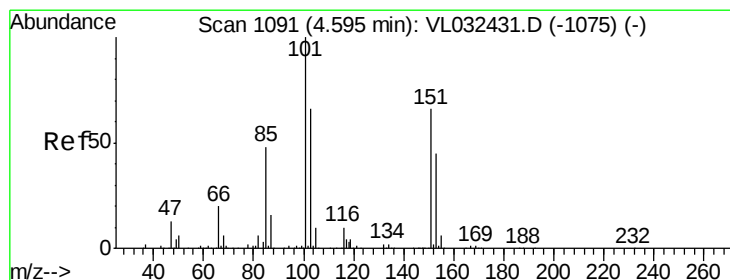
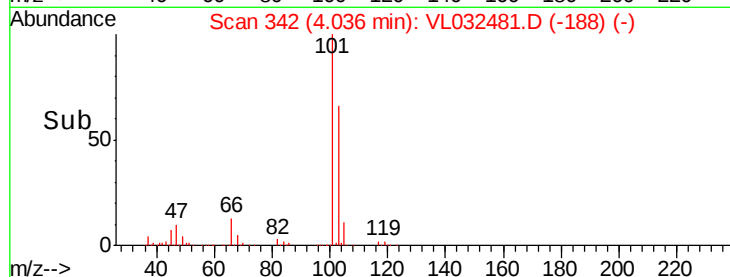
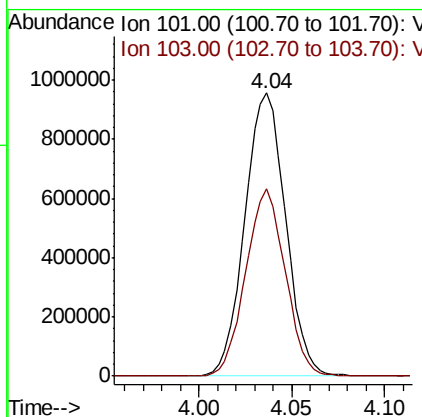
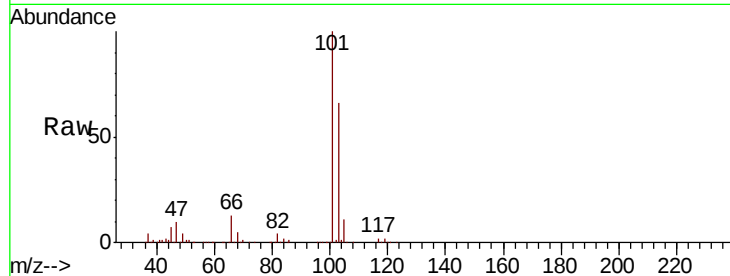
#11
 Trichlorofluoromethane
 Concen: 8.05 ppbv
 RT: 4.04 min Scan# 342
 Delta R.T. -0.01 min
 Lab File: VL032481.D
 Acq: 10 Sep 2018 14:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:101 Resp: 1458569
 Ion Ratio Lower Upper
 101 100
 103 66.4 52.8 79.2

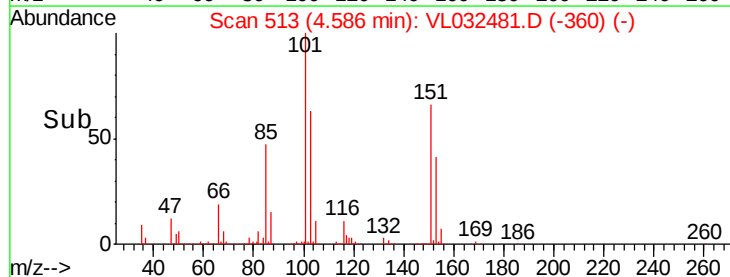
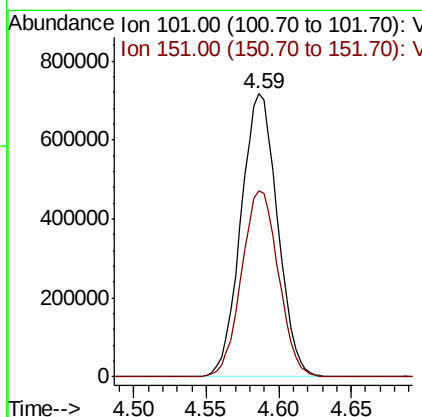
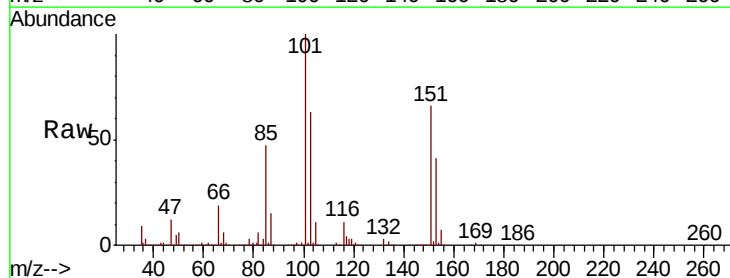
Manual Integrations
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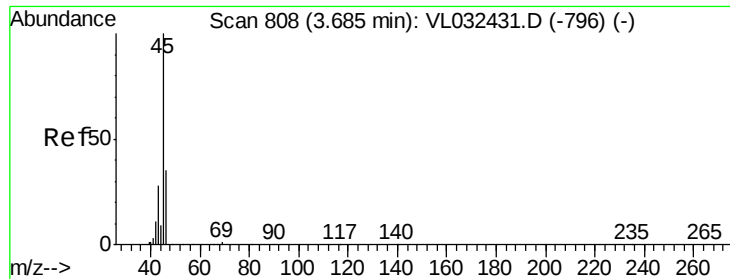
MMDadoda
 9/12/2018 3:59:32 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 10.26 ppbv
 RT: 4.59 min Scan# 513
 Delta R.T. -0.01 min
 Lab File: VL032481.D
 Acq: 10 Sep 2018 14:58

Tgt Ion:101 Resp: 1259913
 Ion Ratio Lower Upper
 101 100
 151 66.3 52.6 78.8





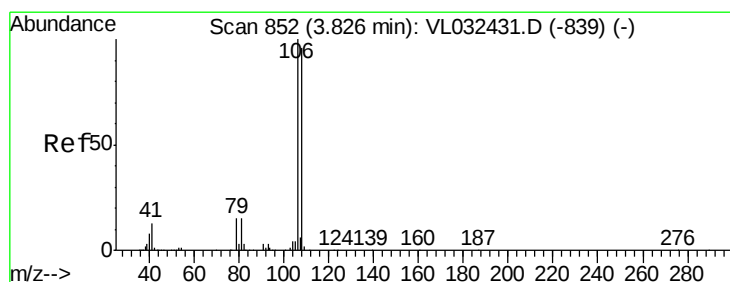
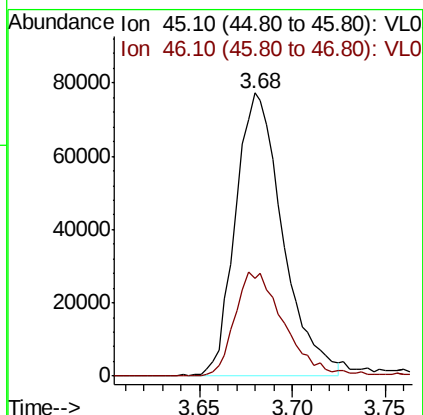
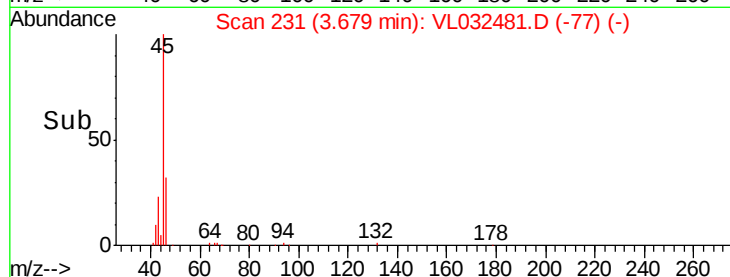
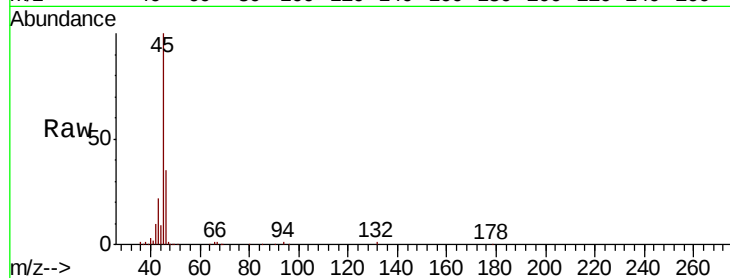
#13
 Ethanol
 Concen: 7.60 ppbv
 RT: 3.68 min Scan# 231
 Delta R.T. -0.01 min
 Lab File: VL032481.D
 Acq: 10 Sep 2018 14:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
45	100		
46	39.8	14.2	56.8

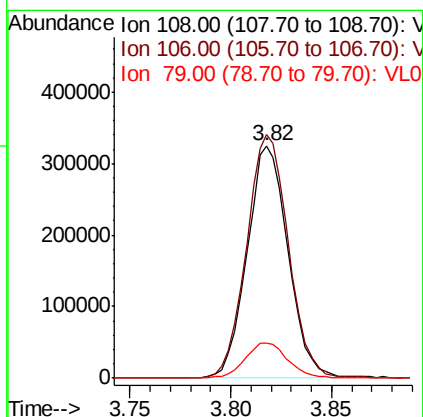
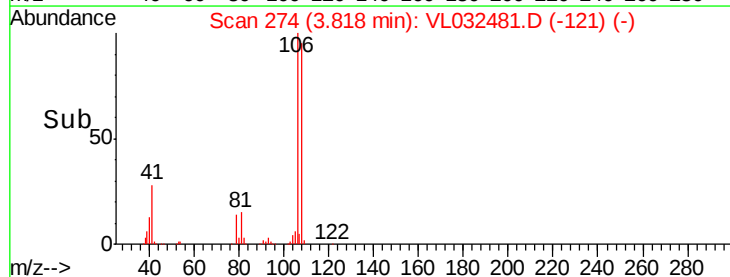
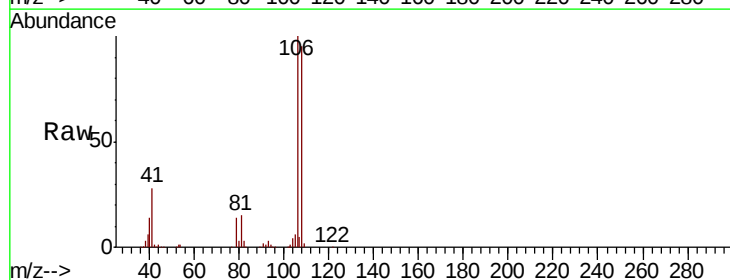
Manual Integrations
 APPROVED

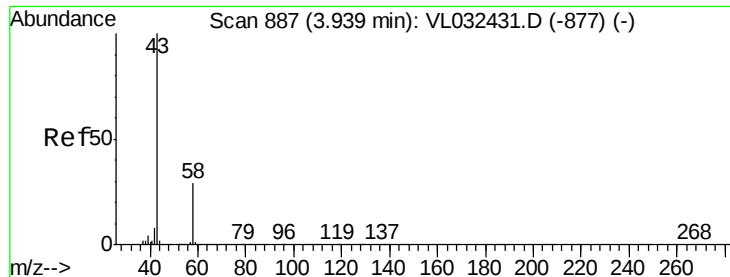
MMDadoda
 9/12/2018 3:59:32 PM



#14
 Bromoethene
 Concen: 8.88 ppbv
 RT: 3.82 min Scan# 274
 Delta R.T. -0.01 min
 Lab File: VL032481.D
 Acq: 10 Sep 2018 14:58

Tgt Ion	Ratio	Lower	Upper
108	100		
106	107.5	85.5	128.3
79	15.9	13.0	19.6





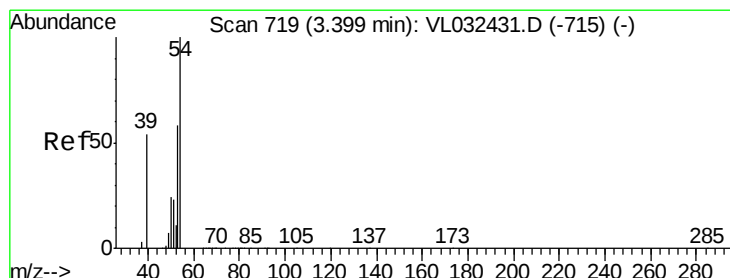
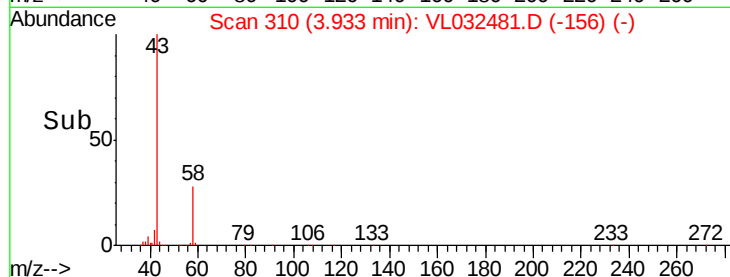
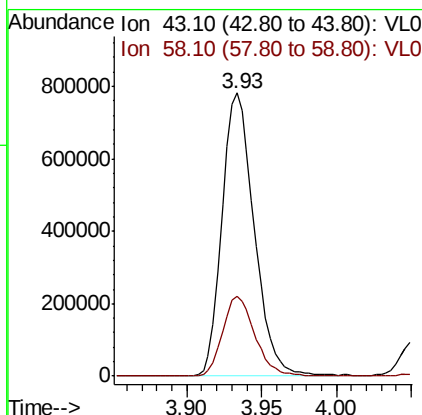
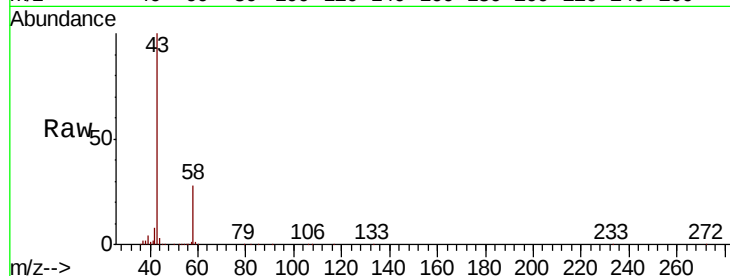
#15
Acetone
Concen: 8.28 ppbv
RT: 3.93 min Scan# 310
Delta R.T. -0.01 min
Lab File: VL032481.D
Acq: 10 Sep 2018 14:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 1171022
Ion Ratio Lower Upper
43 100
58 28.4 22.6 33.8

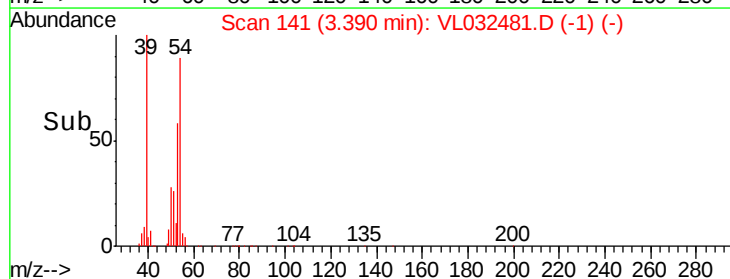
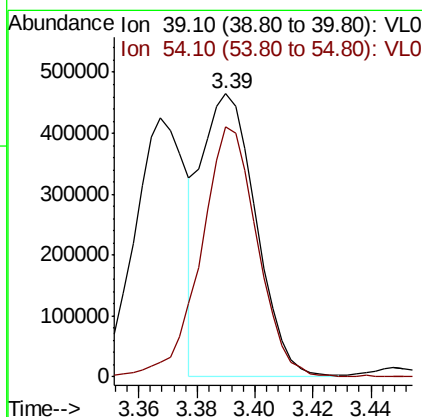
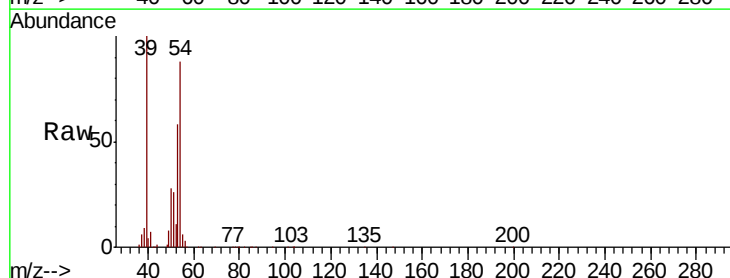
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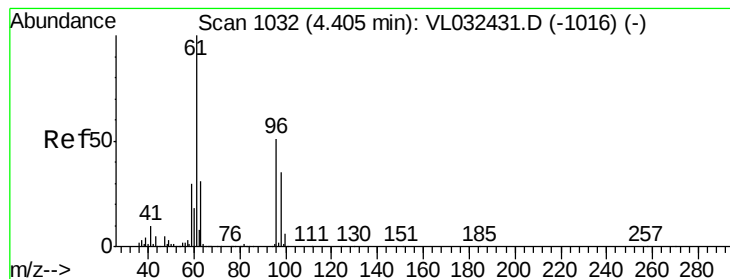
MMDadoda
9/12/2018 3:59:32 PM



#16
1,3-Butadiene
Concen: 9.12 ppbv
RT: 3.39 min Scan# 141
Delta R.T. -0.01 min
Lab File: VL032481.D
Acq: 10 Sep 2018 14:58

Tgt Ion: 39 Resp: 607156
Ion Ratio Lower Upper
39 100
54 91.8 80.8 121.2





#17

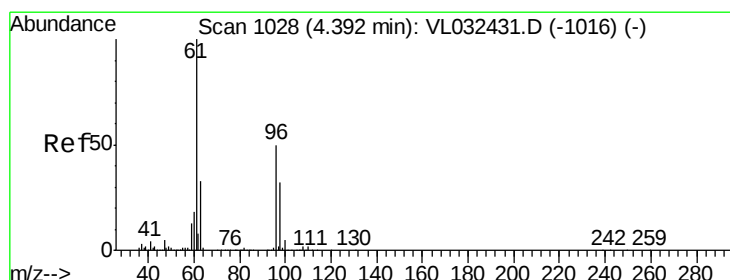
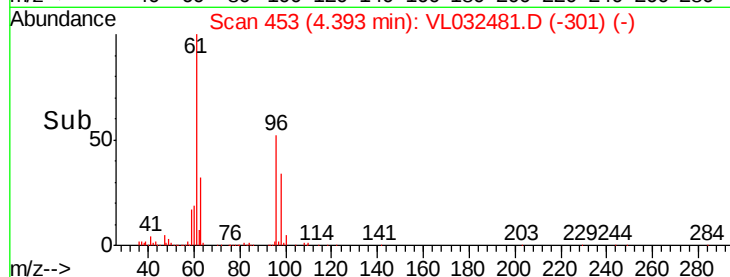
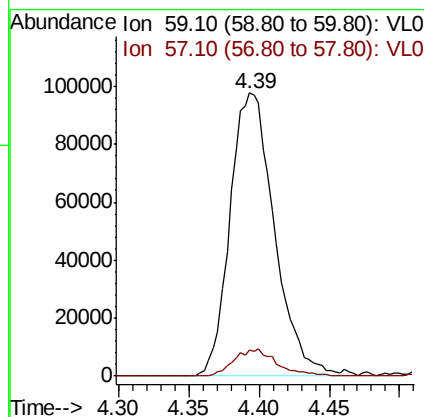
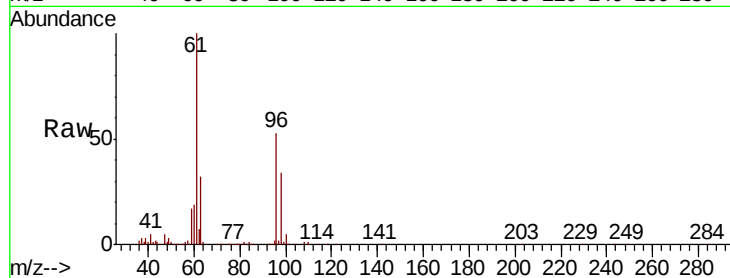
tert-Butyl alcohol
 Concen: 9.86 ppbv
 RT: 4.39 min Scan# 453
 Delta R.T. -0.01 min
 Lab File: VL032481.D
 Acq: 10 Sep 2018 14:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Resp	Lower	Upper
59	100	214619		
57	9.3	0.0	0.0	0.0

Manual Integrations
 APPROVED

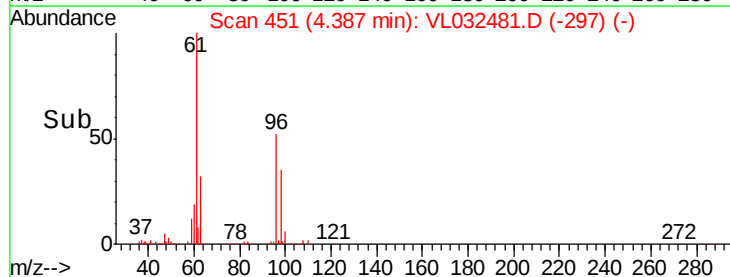
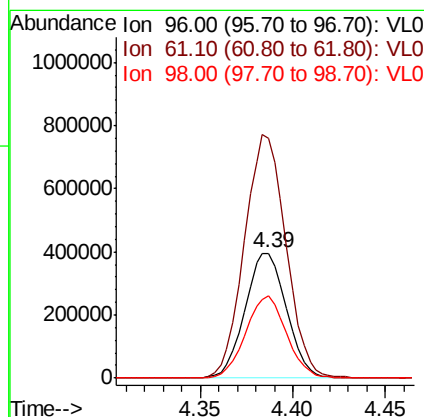
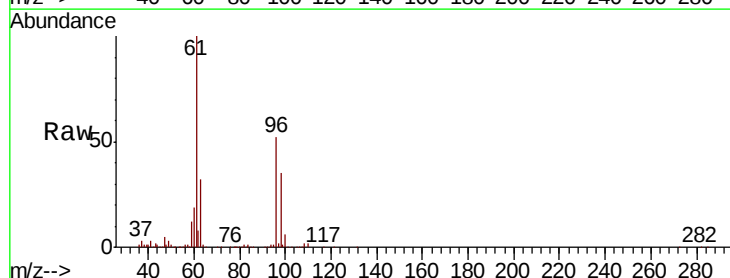
MMDadoda
 9/12/2018 3:59:32 PM

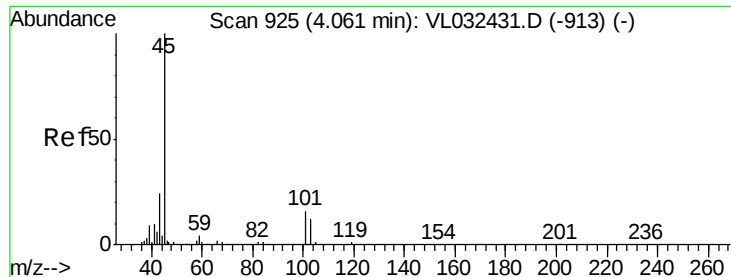


#18

1,1-Dichloroethene
 Concen: 10.95 ppbv
 RT: 4.39 min Scan# 451
 Delta R.T. -0.01 min
 Lab File: VL032481.D
 Acq: 10 Sep 2018 14:58

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	614462		
61	192.0	159.2	238.8	
98	66.3	51.0	76.4	





#19

Isopropyl Alcohol

Concen: 9.28 ppbv

RT: 4.06 min Scan# 348

Delta R.T. -0.01 min

Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 861275

Ion Ratio Lower Upper

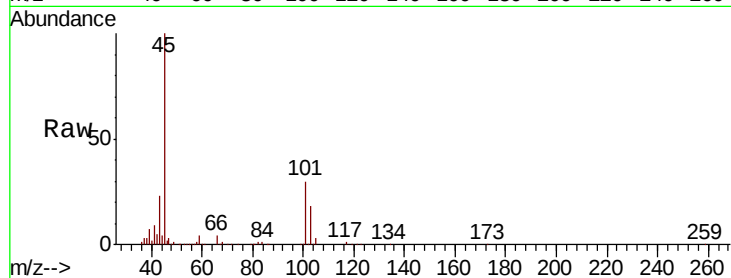
45 100

58 1.9 2.0 3.0#

Manual Integrations
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.06

500000

400000

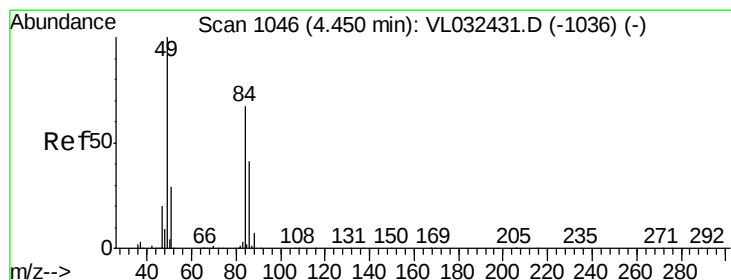
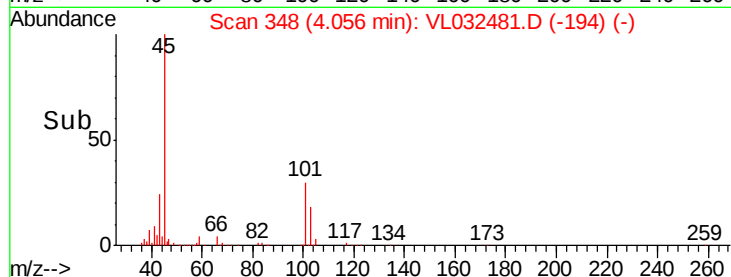
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 10.06 ppbv

RT: 4.44 min Scan# 468

Delta R.T. -0.01 min

Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

Tgt Ion: 84 Resp: 542621

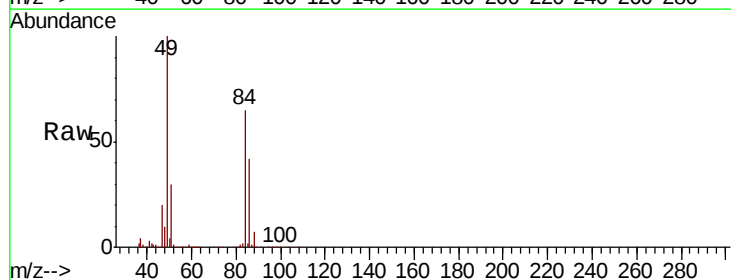
Ion Ratio Lower Upper

84 100

49 153.3 119.1 178.7

51 45.7 35.2 52.8

86 64.5 49.4 74.2



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

800000

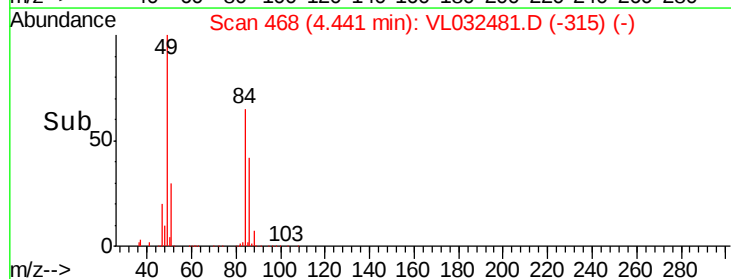
600000

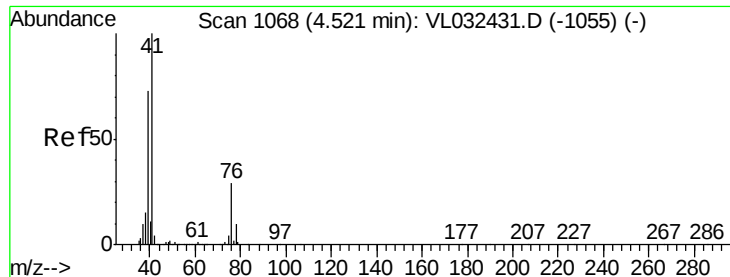
400000

200000

0

Time-->





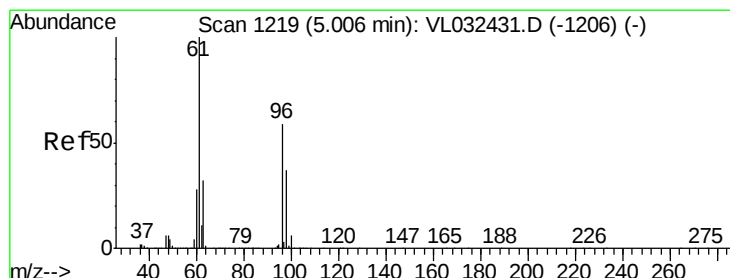
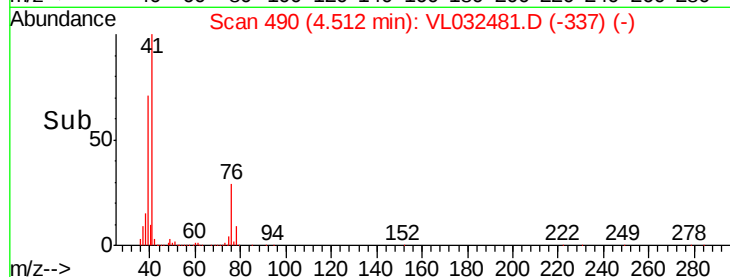
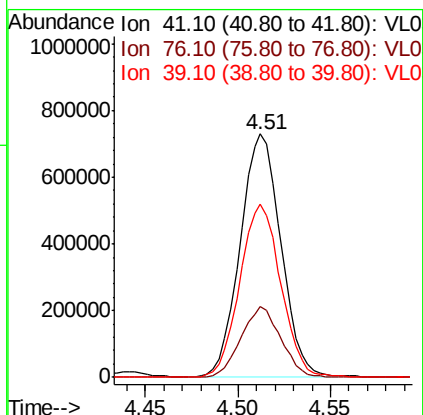
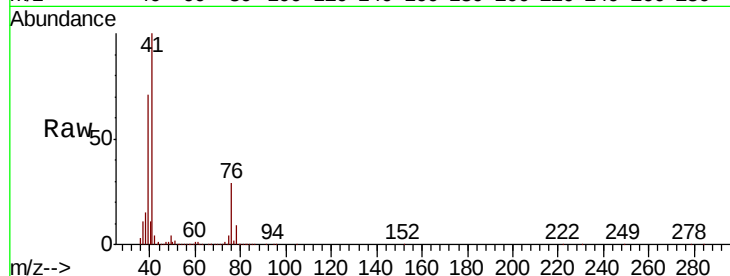
#21
Allvl Chloride
Concen: 11.79 ppbv
RT: 4.51 min Scan# 490
Delta R.T. -0.01 min
Lab File: VL032481.D
Acq: 10 Sep 2018 14:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.6	23.6	35.4
39	71.8	57.7	86.5

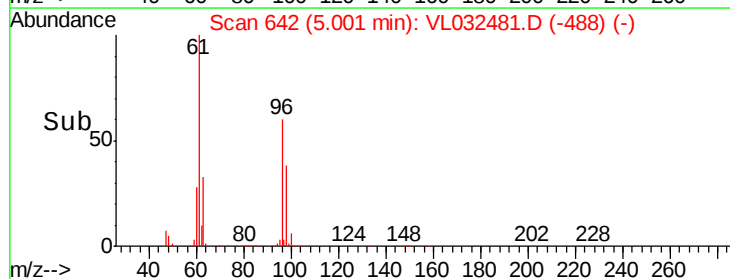
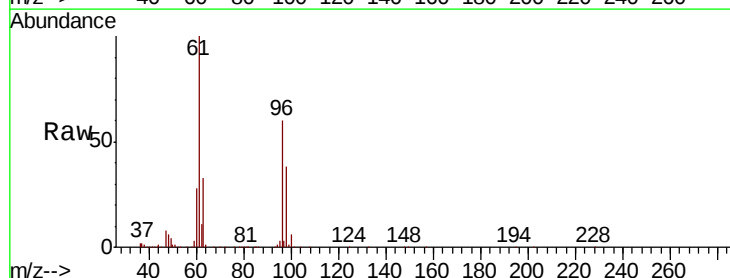
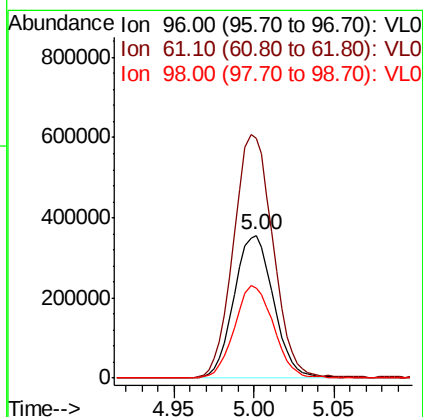
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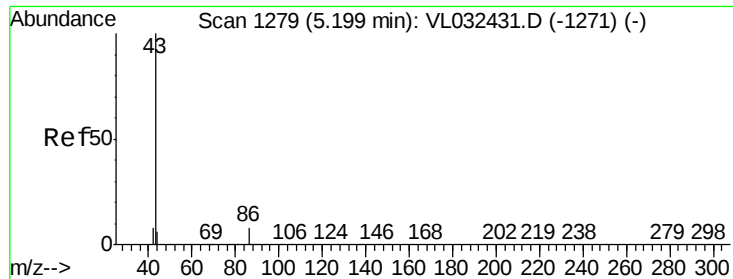
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 9.80 ppbv
RT: 5.00 min Scan# 642
Delta R.T. -0.01 min
Lab File: VL032481.D
Acq: 10 Sep 2018 14:58

Tgt Ion	Ratio	Lower	Upper
96	100		
61	167.8	136.2	204.4
98	63.3	50.4	75.6





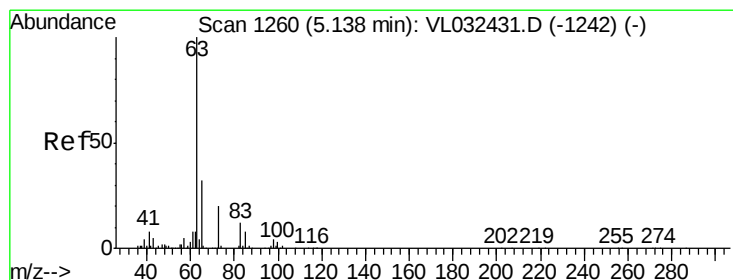
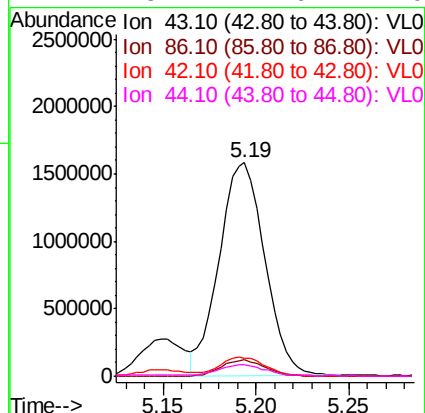
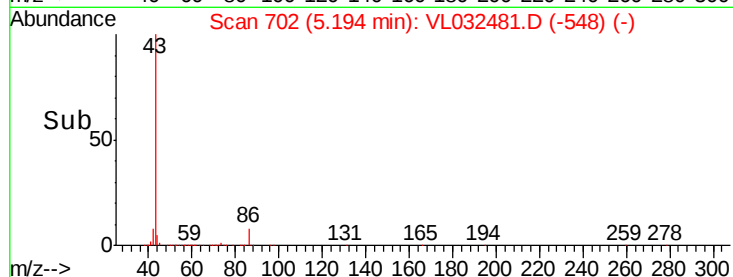
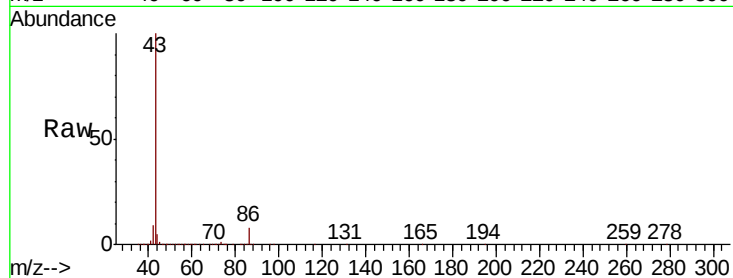
#23
 Vinyl Acetate
 Concen: 11.49 ppbv
 RT: 5.19 min Scan# 702
 Delta R.T. -0.01 min
 Lab File: VL032481.D
 Acq: 10 Sep 2018 14:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	43	Resp	2694971
Ion	Ratio	Lower	Upper
43	100		
86	7.9	5.9	8.9
42	8.5	6.9	10.3
44	5.1	4.6	7.0

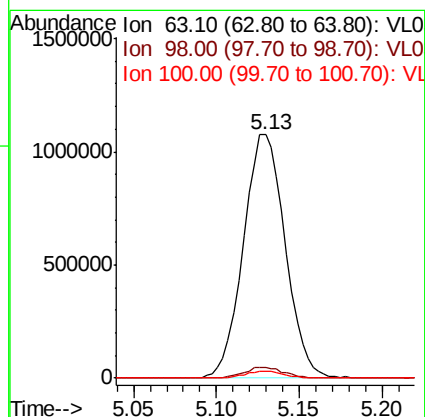
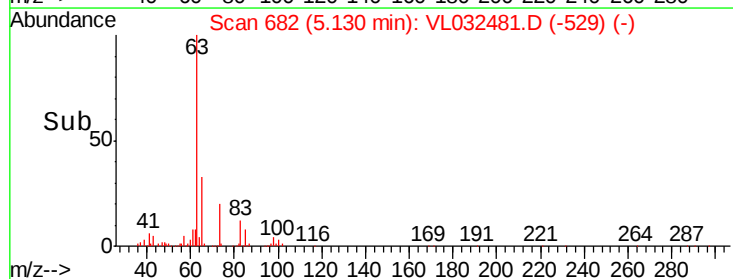
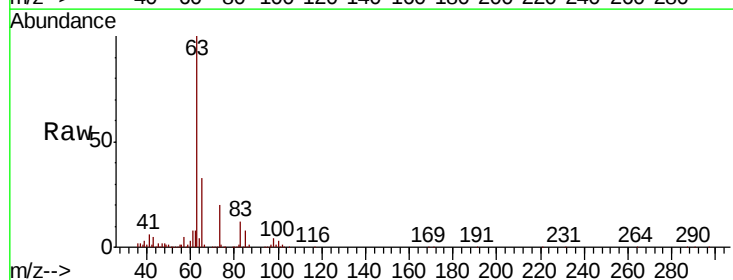
Manual Integrations
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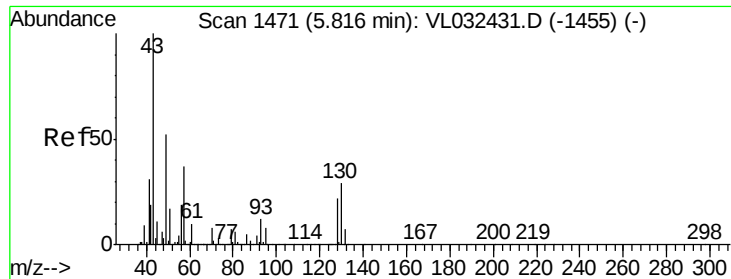
MMDadoda
 9/12/2018 3:59:32 PM



#24
 1,1-Dichloroethane
 Concen: 9.72 ppbv
 RT: 5.13 min Scan# 682
 Delta R.T. -0.01 min
 Lab File: VL032481.D
 Acq: 10 Sep 2018 14:58

Tgt Ion	63	Resp	1878642
Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.1	6.5
100	2.6	1.5	4.4





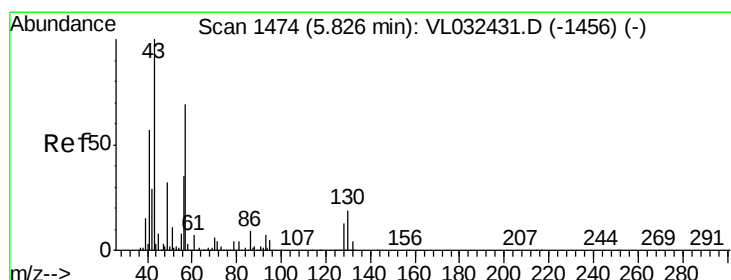
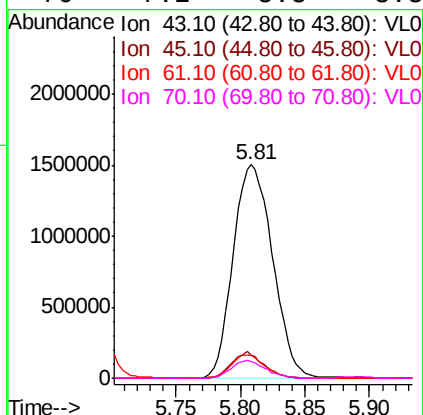
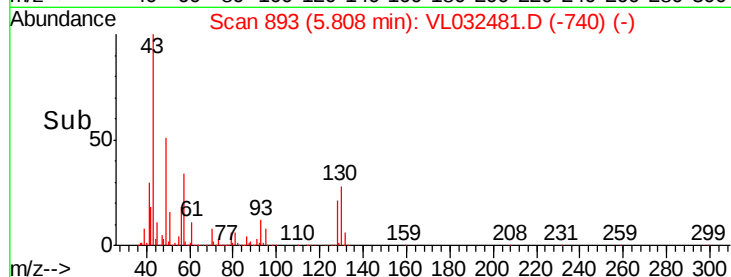
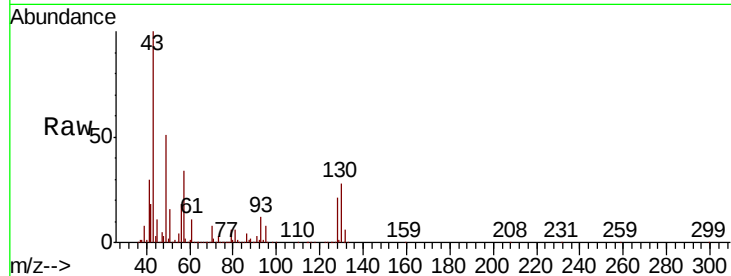
#25
Ethyl Acetate
Concen: 9.57 ppbv
RT: 5.81 min Scan# 893
Delta R.T. -0.01 min
Lab File: VL032481.D
Acq: 10 Sep 2018 14:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
43	43	100		
45	45	10.1	8.0	12.0
61	61	9.4	7.6	11.4
70	70	7.2	5.8	8.8

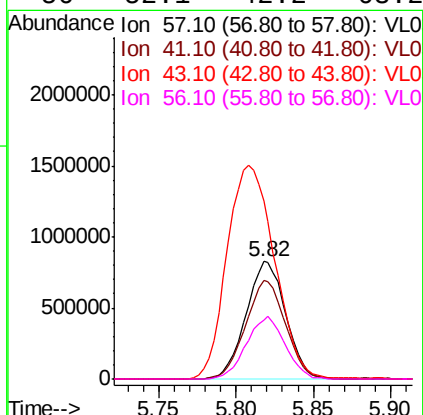
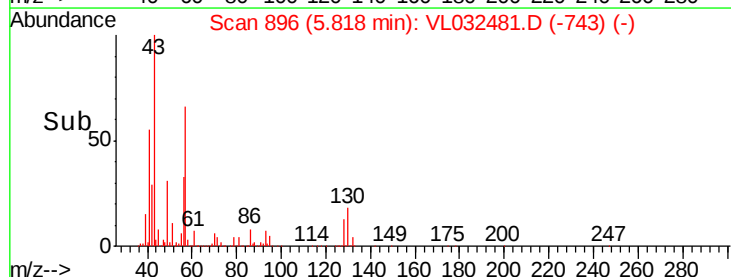
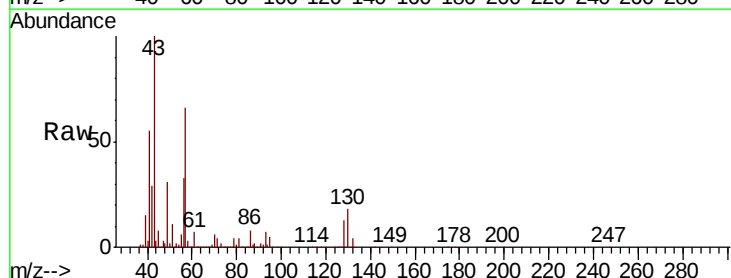
Manual Integrations
APPROVED

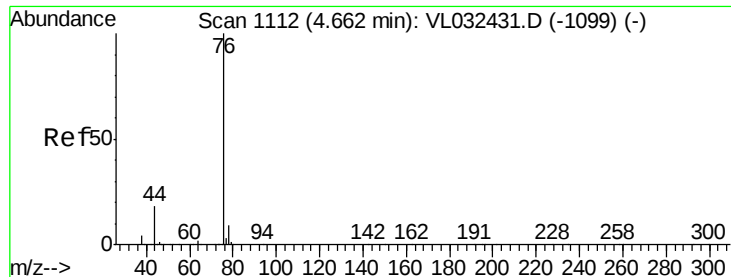
MMDadoda
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#26
Hexane
Concen: 9.81 ppbv
RT: 5.82 min Scan# 896
Delta R.T. -0.01 min
Lab File: VL032481.D
Acq: 10 Sep 2018 14:58

Tgt Ion	Ion	Ratio	Lower	Upper
57	57	100		
41	41	84.8	69.0	103.4
43	43	219.1	172.1	258.1
56	56	52.1	42.2	63.2





#27

Carbon Disulfide

Concen: 11.45 ppbv

RT: 4.66 min Scan# 535

Delta R.T. -0.01 min

Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1580752

Ion Ratio Lower Upper

76 100

44 17.8 14.0 21.0

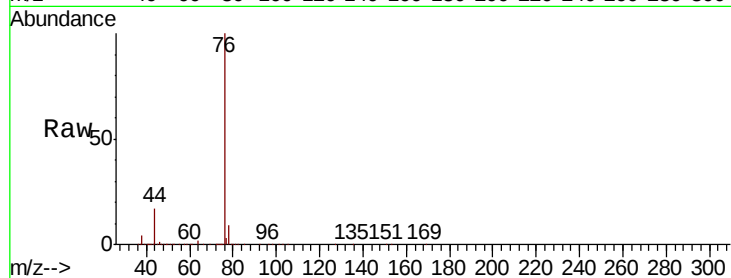
78 9.0 7.5 11.3

Manual Integrations

APPROVED

MMDadoda

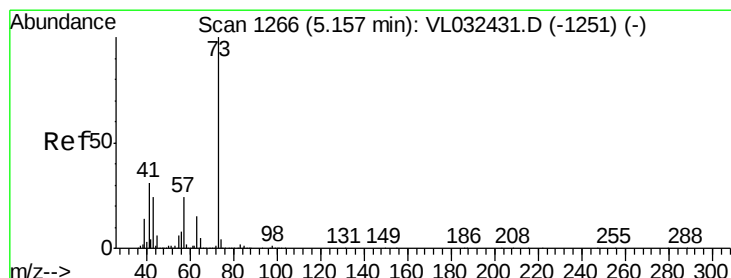
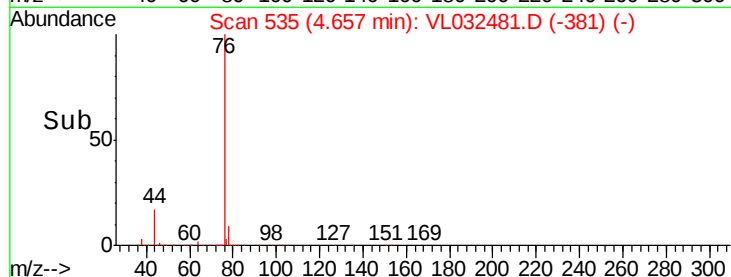
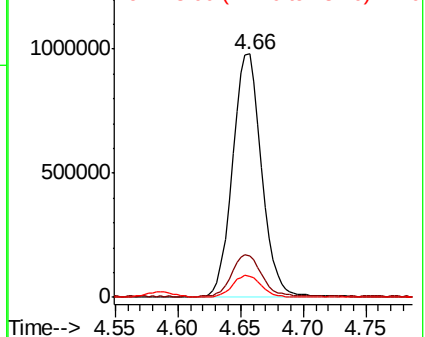
9/12/2018 3:59:32 PM



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 11.46 ppbv

RT: 5.15 min Scan# 688

Delta R.T. -0.01 min

Lab File: VL032481.D

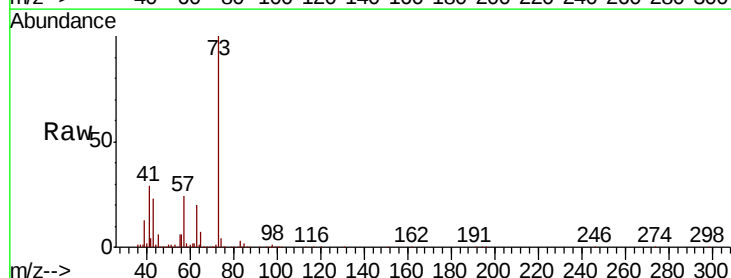
Acq: 10 Sep 2018 14:58

Tgt Ion: 73 Resp: 2104024

Ion Ratio Lower Upper

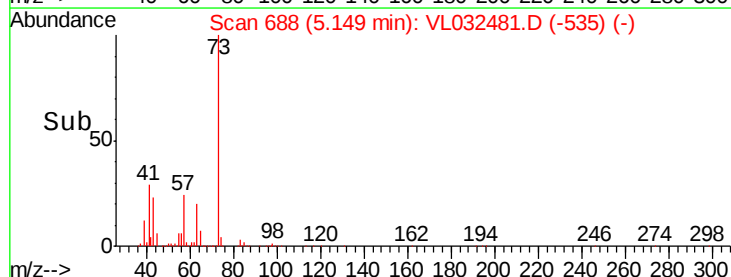
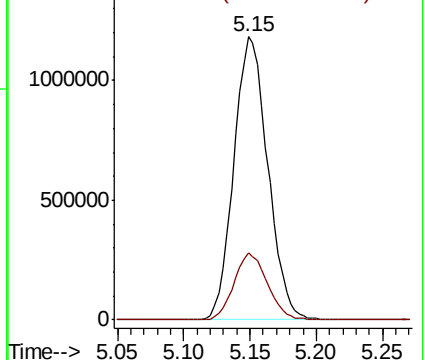
73 100

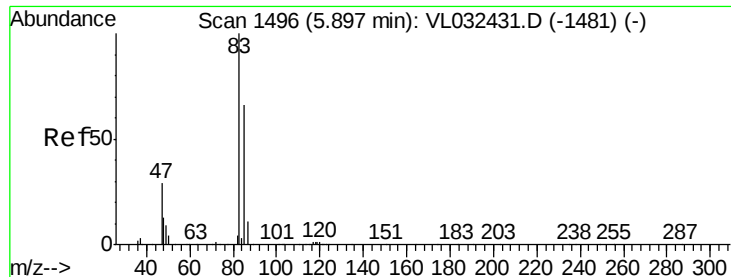
57 23.5 19.3 28.9



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





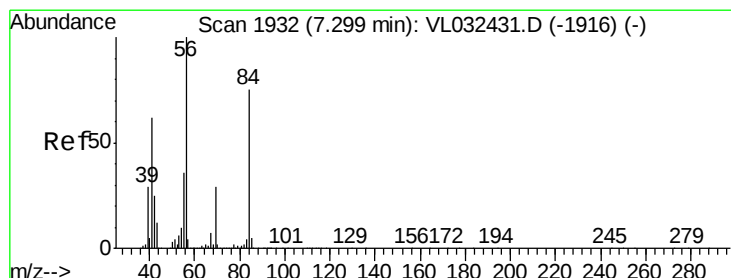
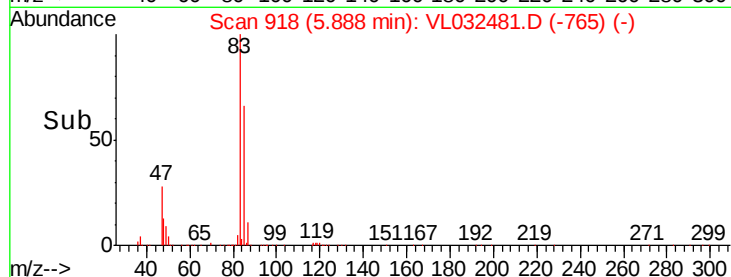
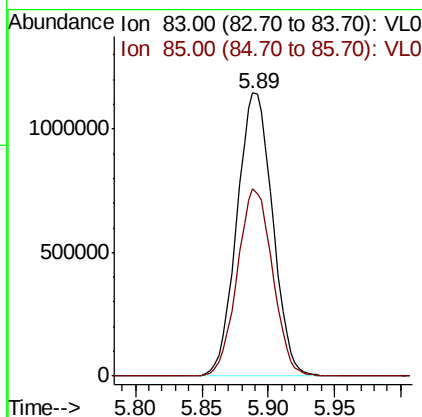
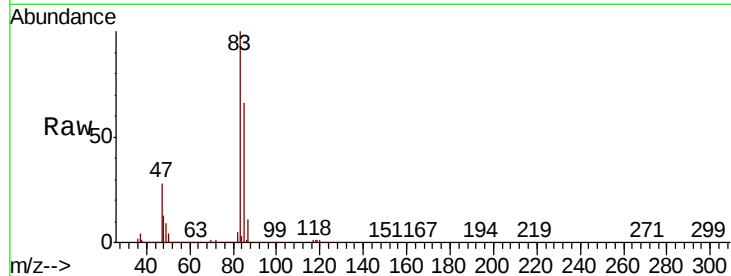
#29
Chloroform
Concen: 9.40 ppbv
RT: 5.89 min Scan# 918
Delta R.T. -0.01 min
Lab File: VL032481.D
Acq: 10 Sep 2018 14:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 2143175
Ion Ratio Lower Upper
83 100
85 66.2 52.5 78.7

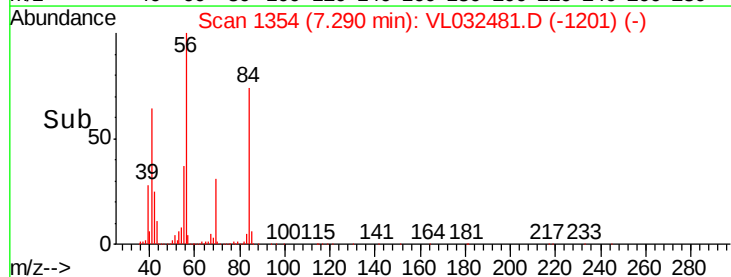
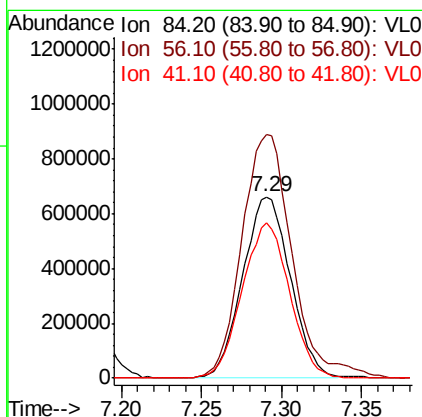
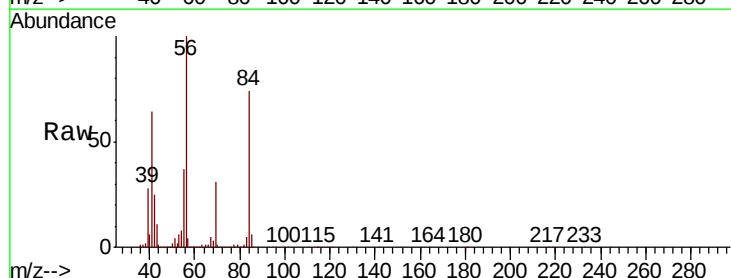
Manual Integrations
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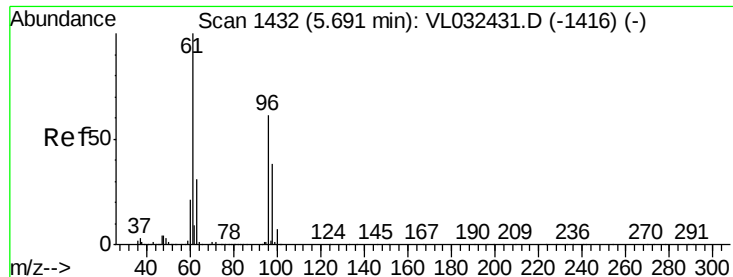
MMDadoda
9/12/2018 3:59:32 PM



#30
Cyclohexane
Concen: 12.30 ppbv
RT: 7.29 min Scan# 1354
Delta R.T. -0.01 min
Lab File: VL032481.D
Acq: 10 Sep 2018 14:58

Tgt Ion: 84 Resp: 1347642
Ion Ratio Lower Upper
84 100
56 142.9 113.5 170.3
41 85.8 68.1 102.1





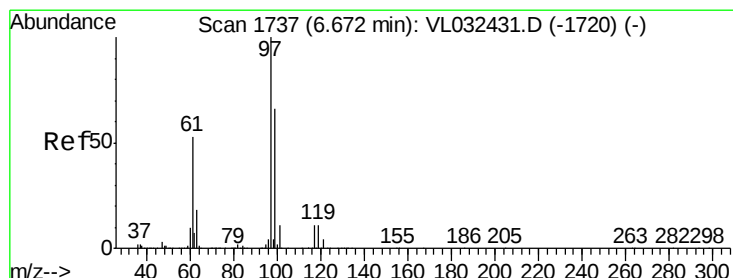
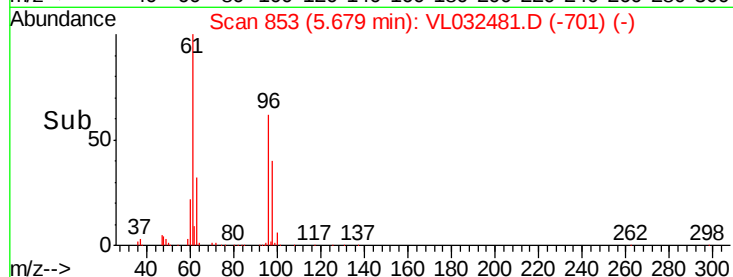
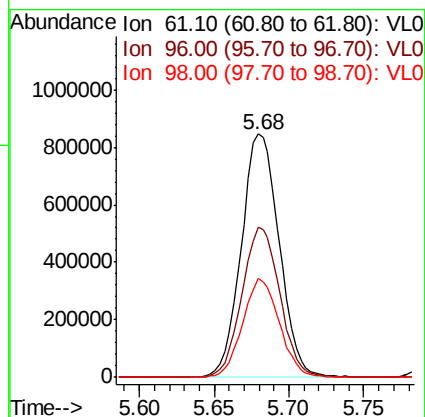
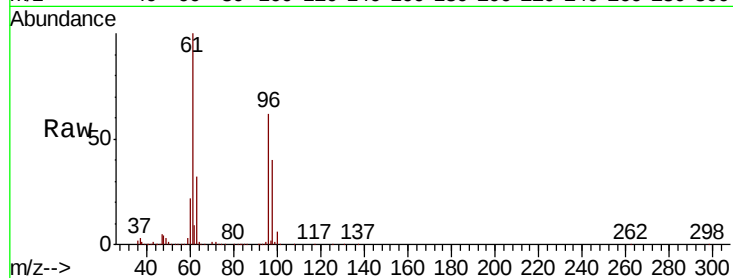
#31
 cis-1,2-Dichloroethene
 Concen: 11.02 ppbv
 RT: 5.68 min Scan# 853
 Delta R.T. -0.01 min
 Lab File: VL032481.D
 Acq: 10 Sep 2018 14:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	61.9	49.2	73.8
98	40.4	30.7	46.1

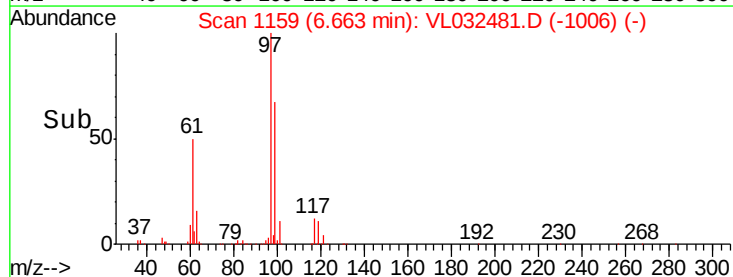
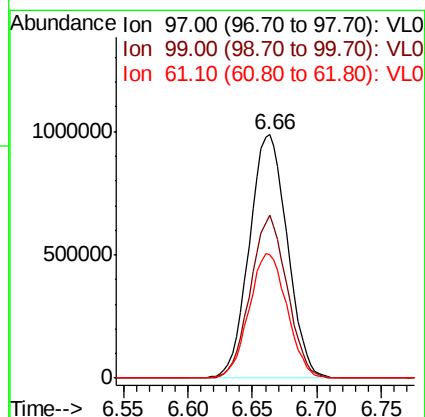
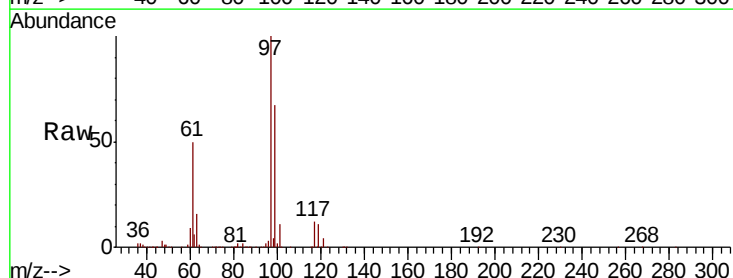
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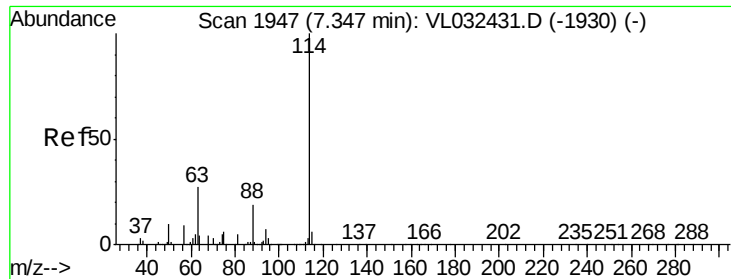
MMDadoda
 9/12/2018 3:59:32 PM



#32
 1,1,1-Trichloroethane
 Concen: 9.55 ppbv
 RT: 6.66 min Scan# 1159
 Delta R.T. -0.01 min
 Lab File: VL032481.D
 Acq: 10 Sep 2018 14:58

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	52.1	78.1
61	51.1	42.5	63.7





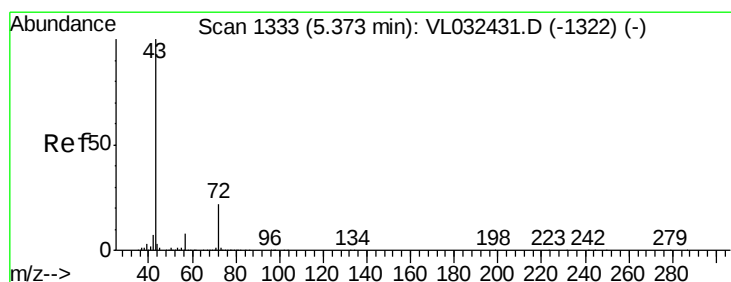
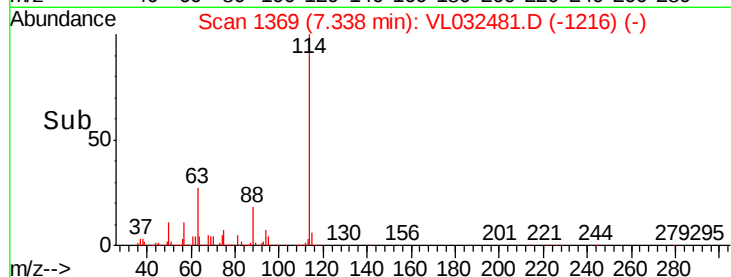
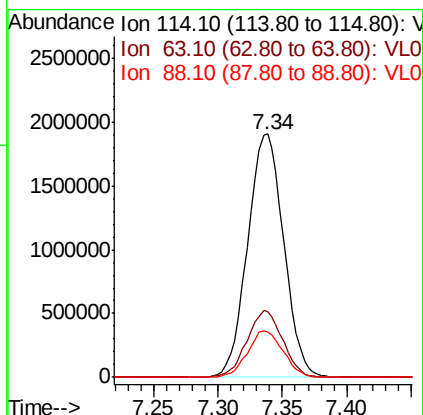
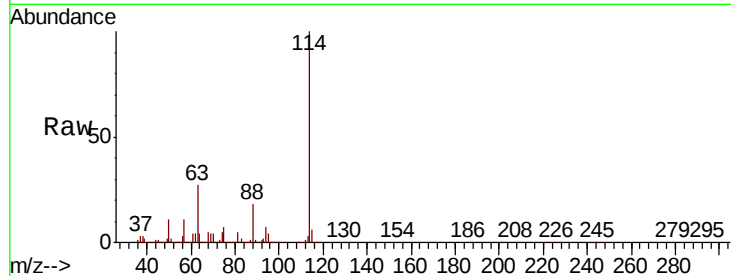
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.34 min Scan# 1369
 Delta R.T. -0.01 min
 Lab File: VL032481.D
 Acq: 10 Sep 2018 14:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.5	22.2	33.4
88	18.8	15.0	22.4

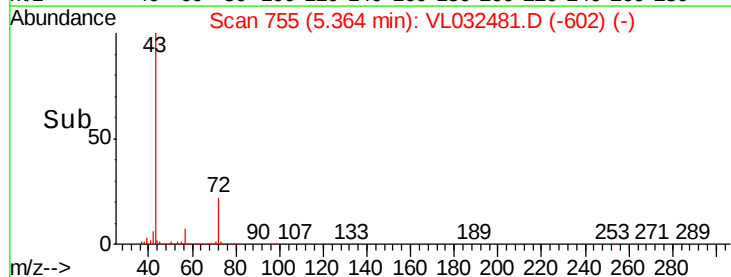
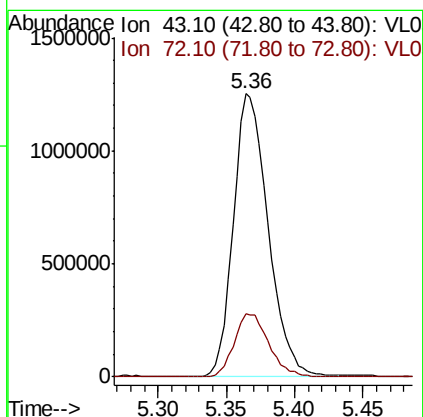
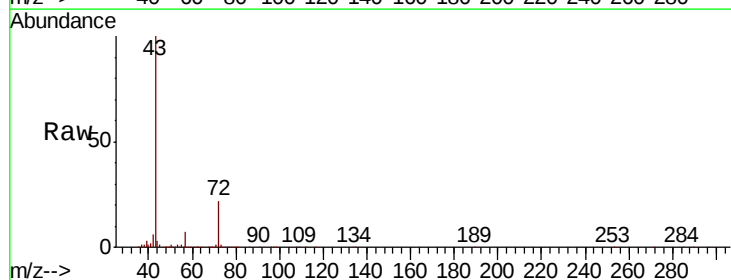
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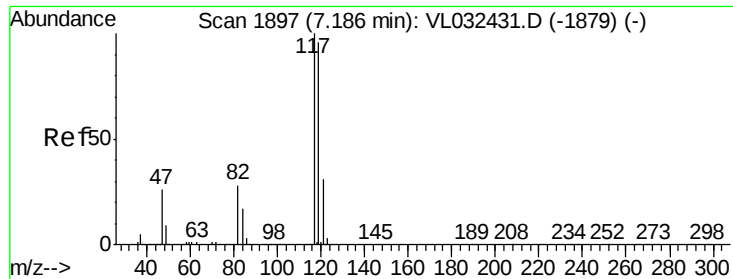
MMDadoda
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#34
 2-Butanone
 Concen: 8.95 ppbv
 RT: 5.36 min Scan# 755
 Delta R.T. -0.01 min
 Lab File: VL032481.D
 Acq: 10 Sep 2018 14:58

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.3	17.8	26.6





#35

Carbon Tetrachloride

Concen: 9.19 ppbv

RT: 7.18 min Scan# 1319

Delta R.T. -0.01 min

Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

Instrument :

MSVOA_L

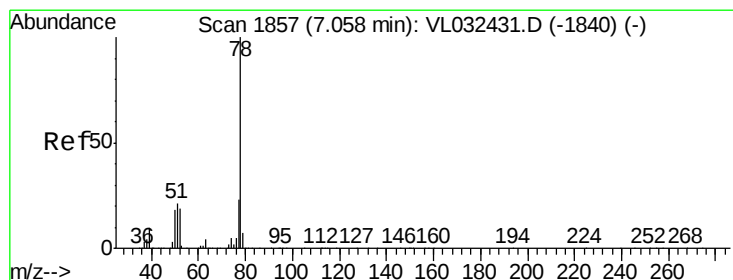
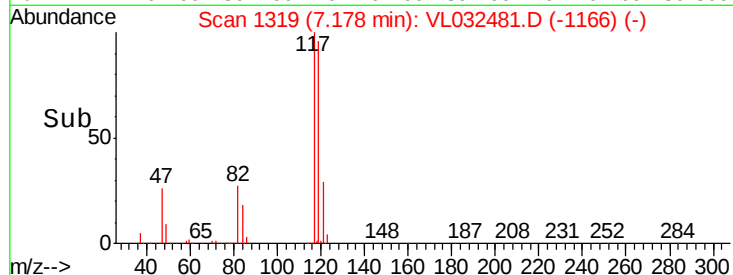
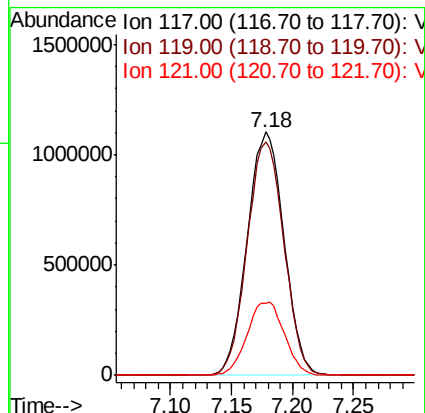
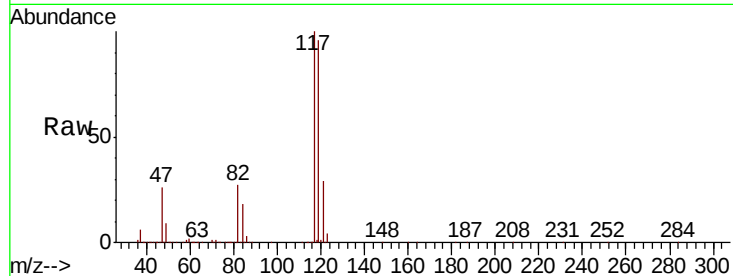
ClientSampleId :

VSTDCCC010

Tot Ion	Ratio	Lower	Upper
117	100		
119	96.0	76.6	115.0
121	29.4	24.6	36.8

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#36

Benzene

Concen: 10.27 ppbv

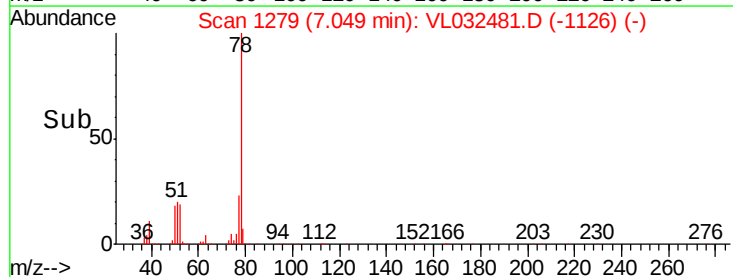
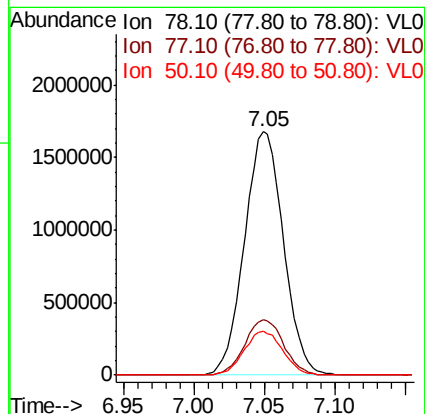
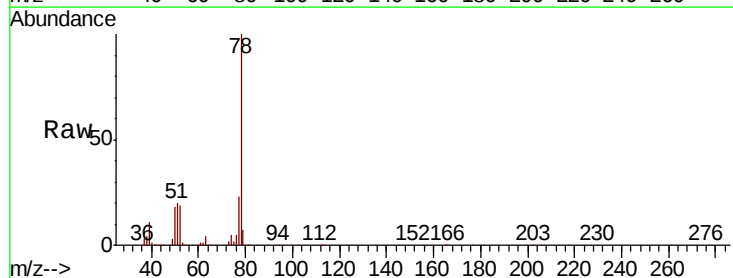
RT: 7.05 min Scan# 1279

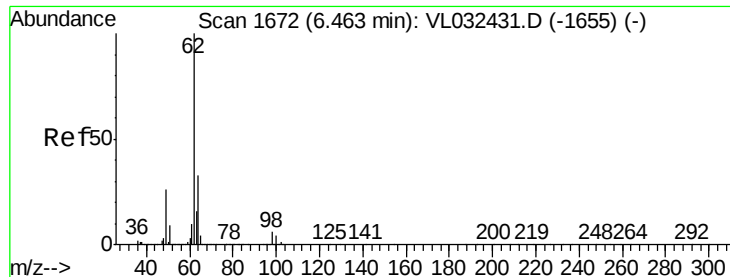
Delta R.T. -0.01 min

Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.5	18.4	27.6
50	17.8	14.4	21.6





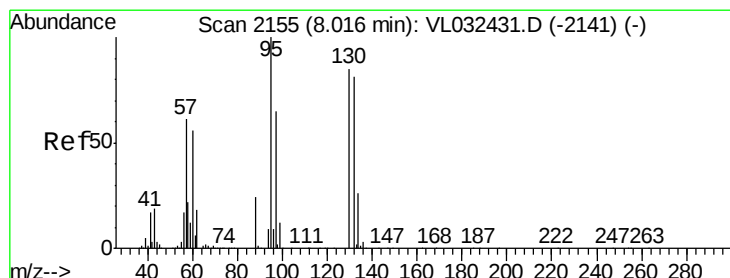
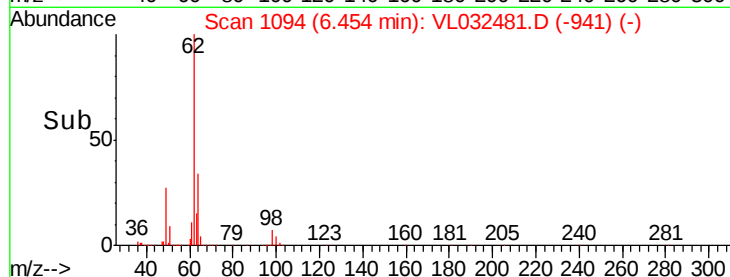
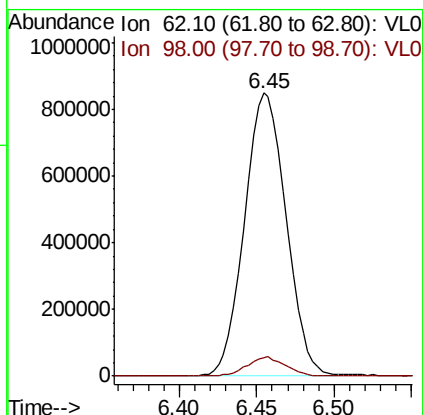
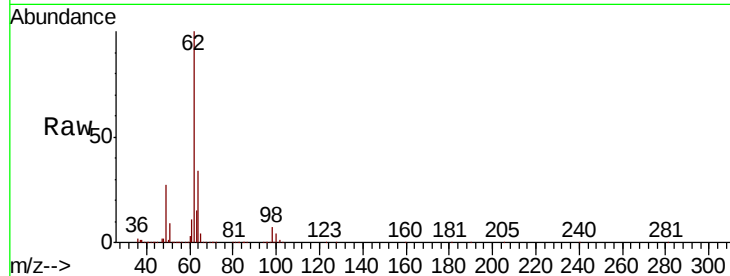
#37
 1,2-Dichloroethane
 Concen: 8.21 ppbv
 RT: 6.45 min Scan# 1094
 Delta R.T. -0.01 min
 Lab File: VL032481.D
 Acq: 10 Sep 2018 14:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 62 Resp: 1591498
 Ion Ratio Lower Upper
 62 100
 98 6.4 5.0 7.6

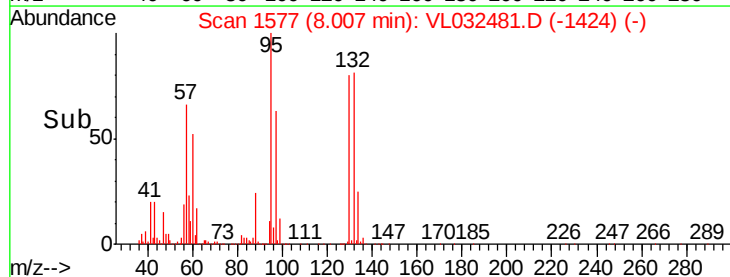
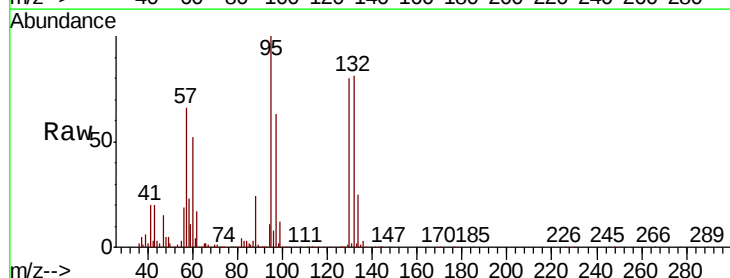
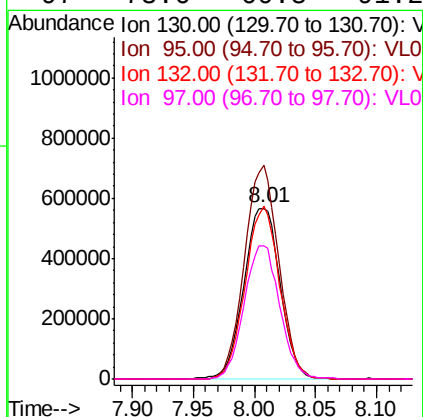
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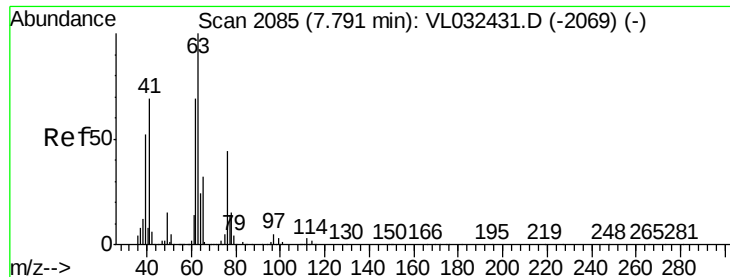
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#38
 Trichloroethene
 Concen: 9.60 ppbv
 RT: 8.01 min Scan# 1577
 Delta R.T. -0.01 min
 Lab File: VL032481.D
 Acq: 10 Sep 2018 14:58

Tgt Ion:130 Resp: 1154422
 Ion Ratio Lower Upper
 130 100
 95 125.5 94.2 141.4
 132 101.5 76.2 114.4
 97 78.6 60.8 91.2





#39

1,2-Dichloropropane

Concen: 10.37 ppbv

RT: 7.78 min Scan# 1507

Delta R.T. -0.01 min

Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 63 Resp: 1403922

Ion Ratio Lower Upper

63 100

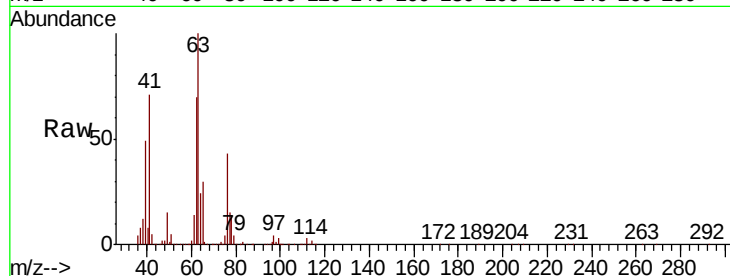
41 70.9 55.4 83.0

62 70.1 55.4 83.0

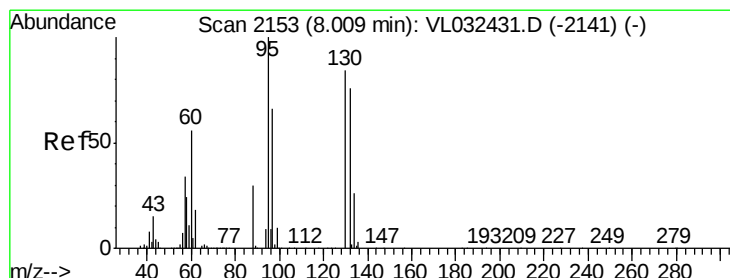
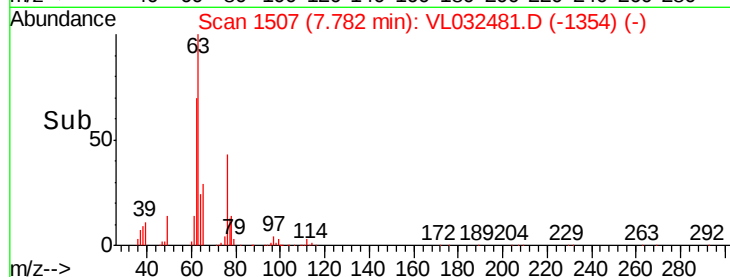
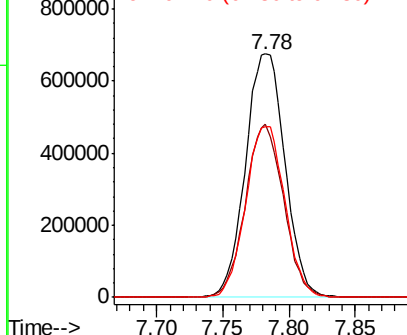
Manual Integrations
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Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 11.19 ppbv

RT: 8.00 min Scan# 1575

Delta R.T. -0.01 min

Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

Tgt Ion: 88 Resp: 454687

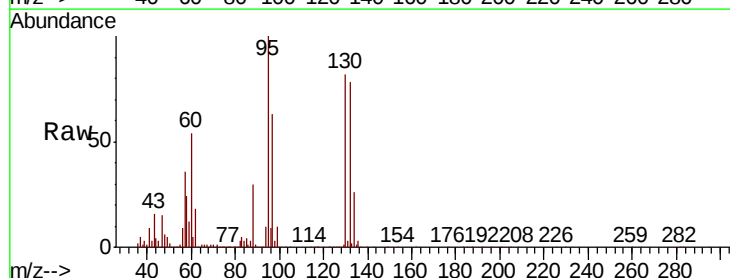
Ion Ratio Lower Upper

88 100

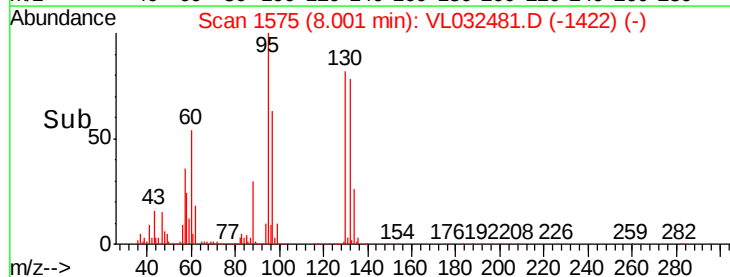
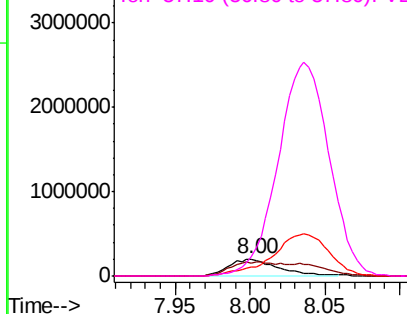
58 143.4 119.7 179.5

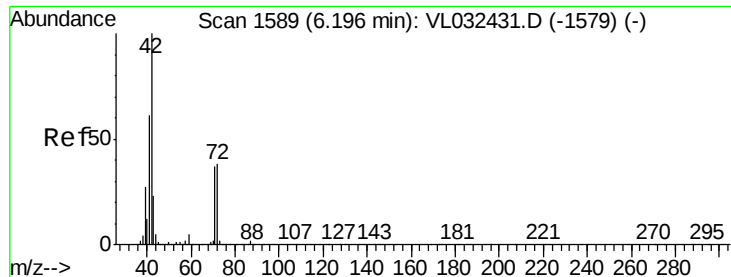
43 287.8 253.0 379.4

57 1326.3 1156.9 1735.3



Abundance Ion 88.10 (87.80 to 88.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 10.13 ppbv

RT: 6.19 min Scan# 1011

Delta R.T. -0.01 min

Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

Instrument :

MSVOA_L

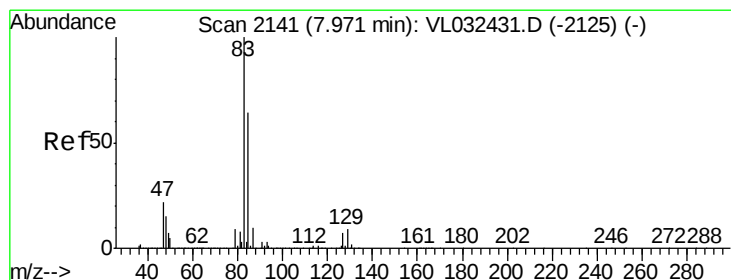
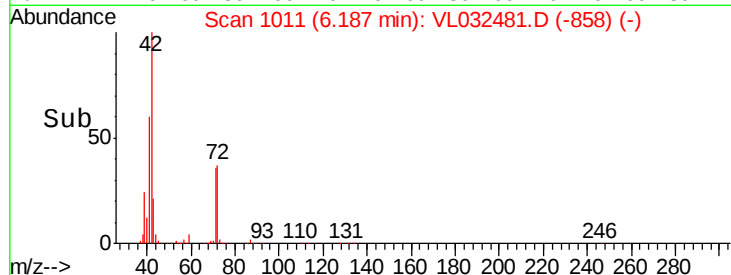
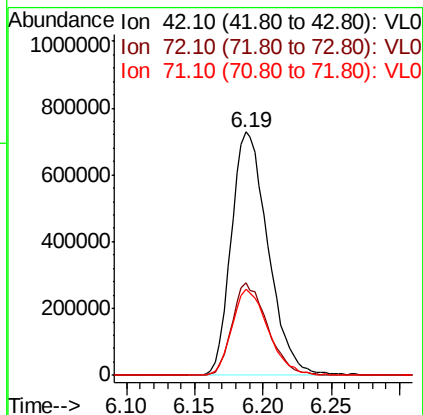
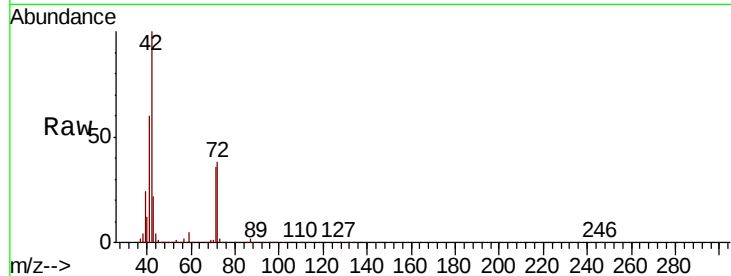
ClientSampleId :

VSTDCCC010

Tot Ion:	42	Resp:	1361815
Ion	Ratio	Lower	Upper
42	100		
72	36.8	29.5	44.3
71	35.0	28.3	42.5

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#42

Bromodichloromethane

Concen: 9.89 ppbv

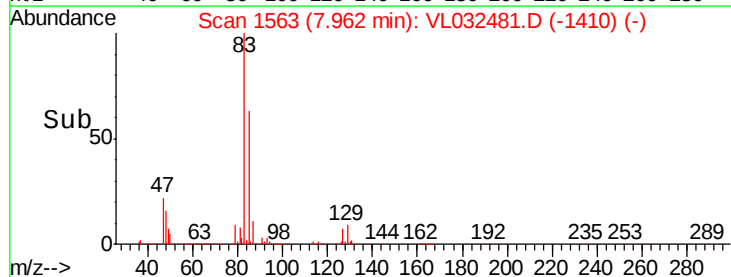
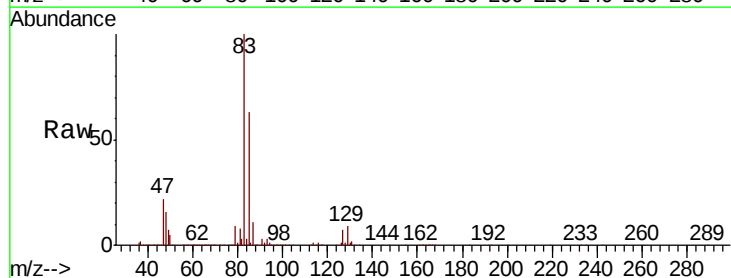
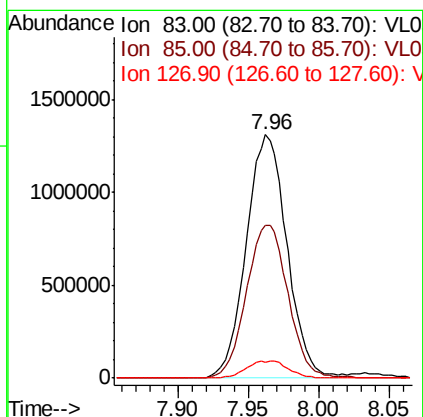
RT: 7.96 min Scan# 1563

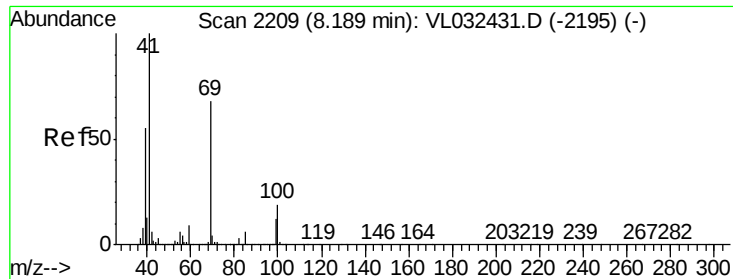
Delta R.T. -0.01 min

Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

Tgt Ion:	83	Resp:	2644824
Ion	Ratio	Lower	Upper
83	100		
85	63.0	51.1	76.7
127	6.6	5.8	8.8





#43

Methyl Methacrylate

Concen: 10.76 ppbv

RT: 8.18 min Scan# 1631

Delta R.T. -0.01 min

Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

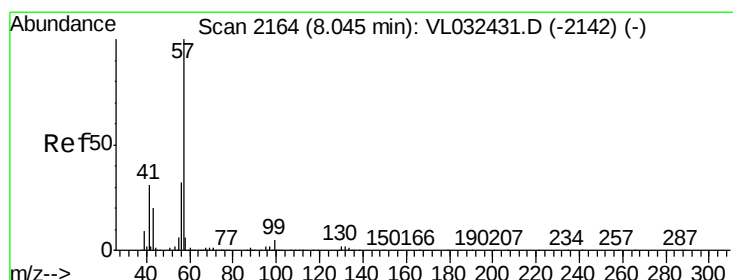
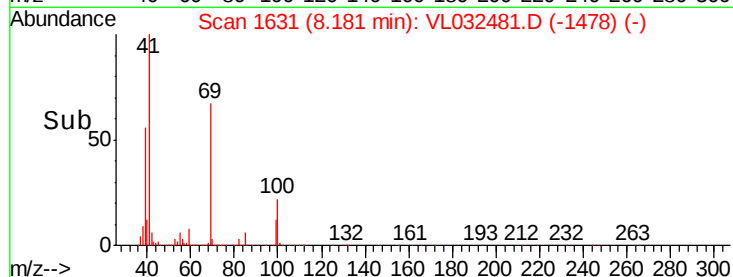
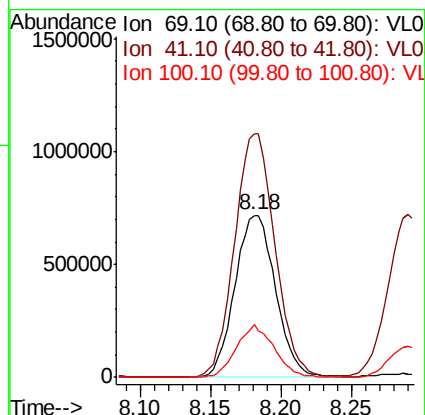
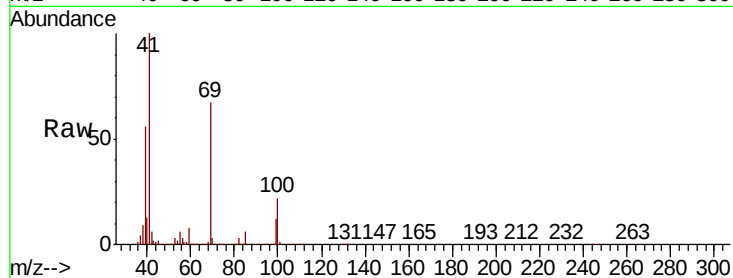
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 69 Resp: 1445153

Ion	Ratio	Lower	Upper
69	100		
41	149.2	117.1	175.7
100	30.1	23.4	35.2

Manual Integrations
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#44

2,2,4-Trimethylpentane

Concen: 9.84 ppbv

RT: 8.04 min Scan# 1586

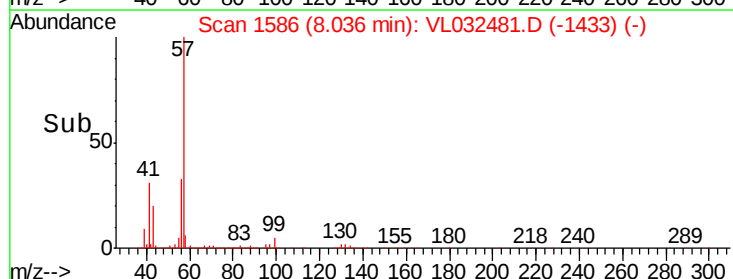
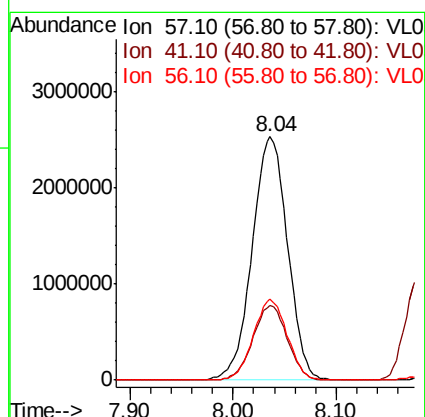
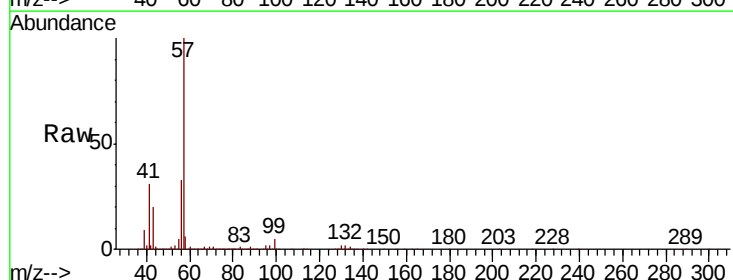
Delta R.T. -0.01 min

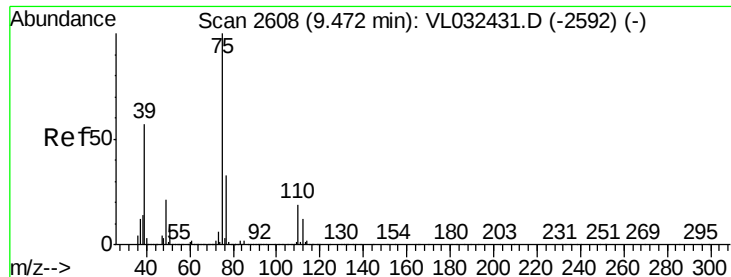
Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

Tgt Ion: 57 Resp: 6021089

Ion	Ratio	Lower	Upper
57	100		
41	29.8	24.4	36.6
56	31.8	25.7	38.5





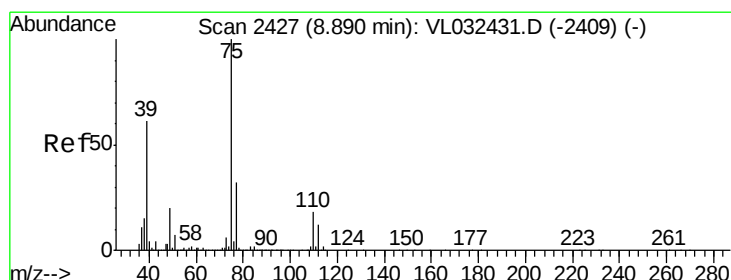
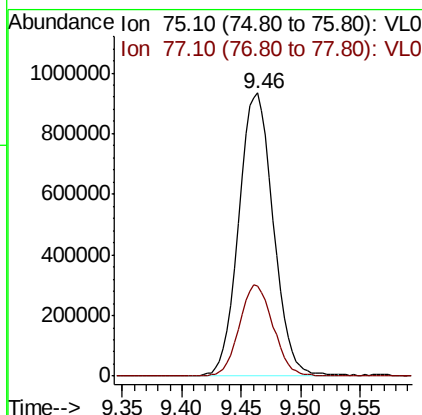
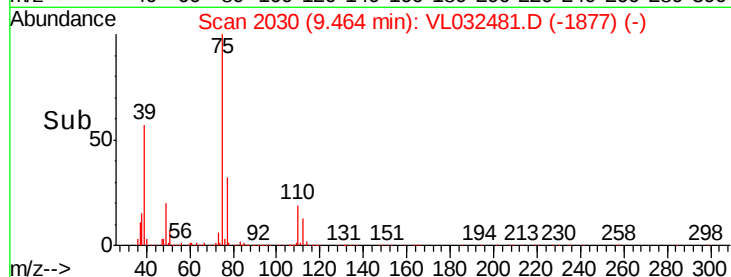
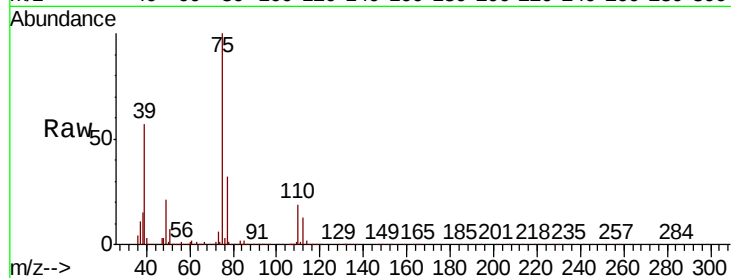
#45
t-1,3-Dichloropropene
Concen: 13.06 ppbv
RT: 9.46 min Scan# 2030
Delta R.T. -0.01 min
Lab File: VL032481.D
Acq: 10 Sep 2018 14:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 75 Resp: 1876263
Ion Ratio Lower Upper
75 100
77 31.9 26.2 39.2

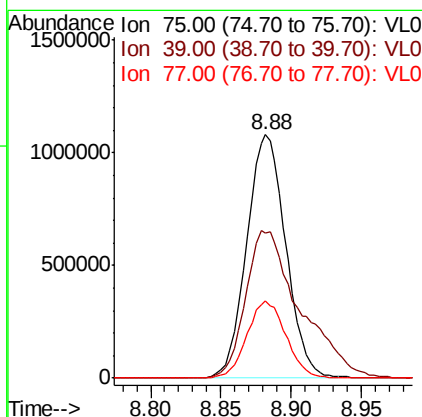
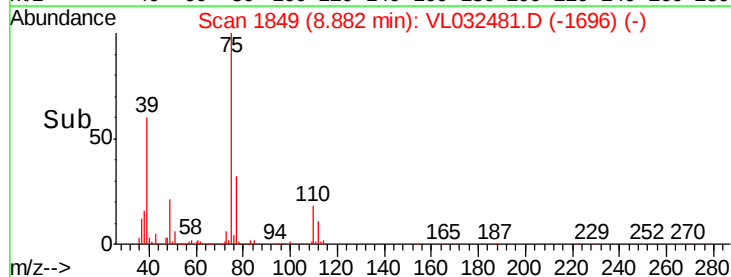
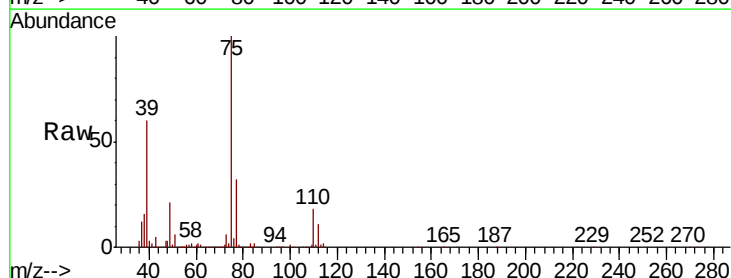
Manual Integrations
APPROVED

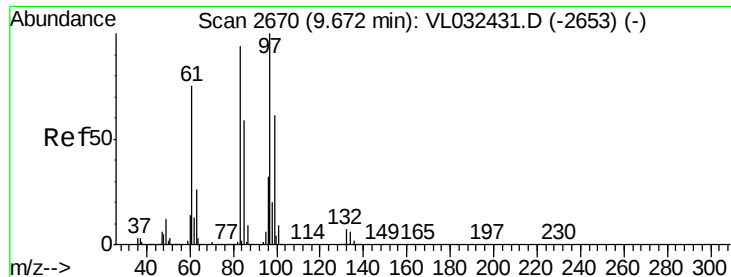
MMDadoda
9/12/2018 3:59:32 PM



#46
cis-1,3-Dichloropropene
Concen: 11.43 ppbv
RT: 8.88 min Scan# 1849
Delta R.T. -0.01 min
Lab File: VL032481.D
Acq: 10 Sep 2018 14:58

Tgt Ion: 75 Resp: 2097563
Ion Ratio Lower Upper
75 100
39 59.7 48.9 73.3
77 31.9 25.4 38.0





#47

1,1,2-Trichloroethane

Concen: 9.88 ppbv

RT: 9.66 min Scan# 2092

Delta R.T. -0.01 min

Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 97 Resp: 1421777

Ion Ratio Lower Upper

97 100

83 91.5 75.0 112.4

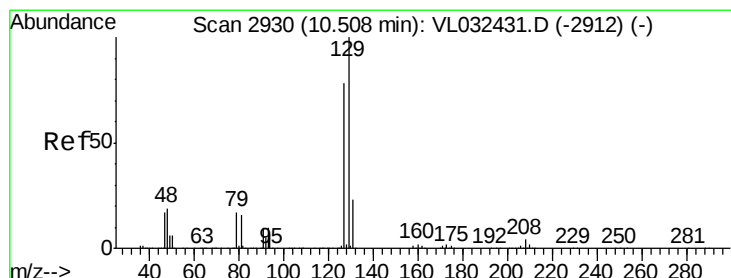
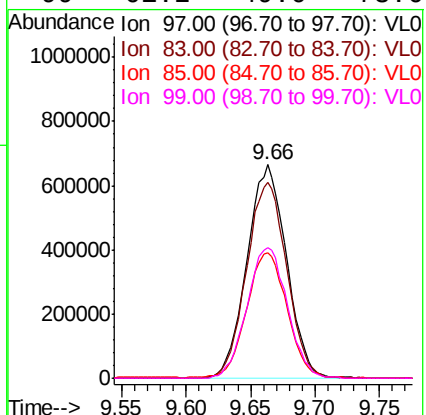
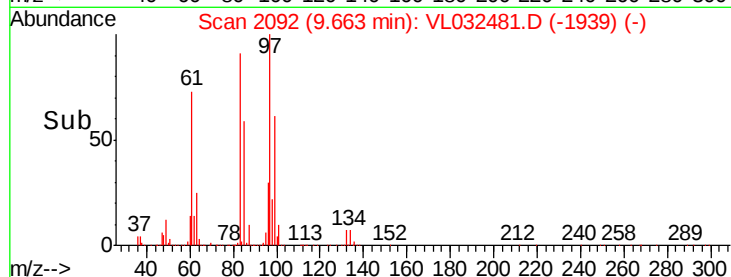
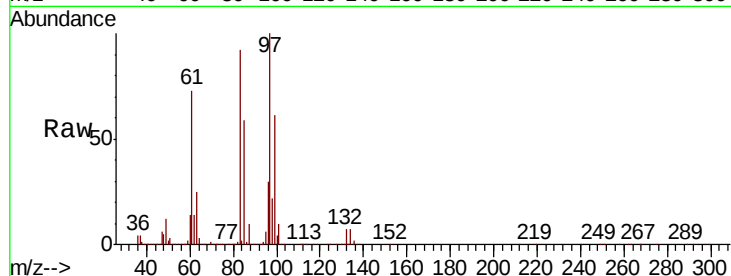
85 58.4 47.5 71.3

99 61.2 49.0 73.6

Manual Integrations
APPROVED

MMDadoda

9/12/2018 3:59:32 PM



#48

Dibromochloromethane

Concen: 11.34 ppbv

RT: 10.50 min Scan# 2352

Delta R.T. -0.01 min

Lab File: VL032481.D

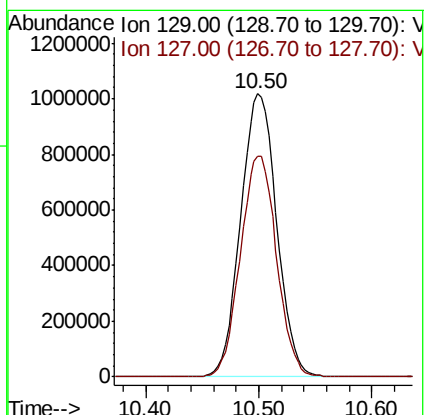
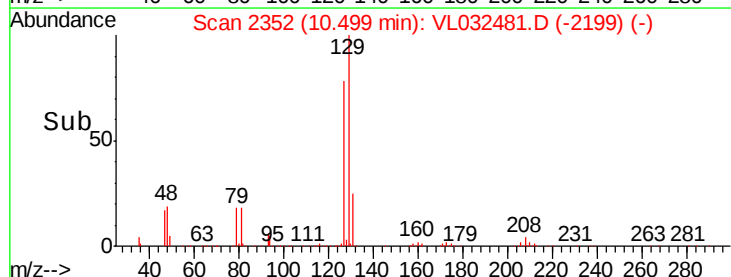
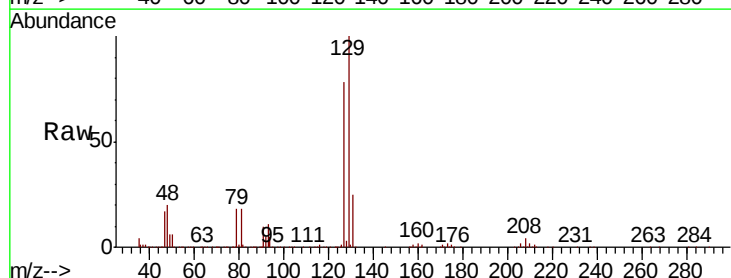
Acq: 10 Sep 2018 14:58

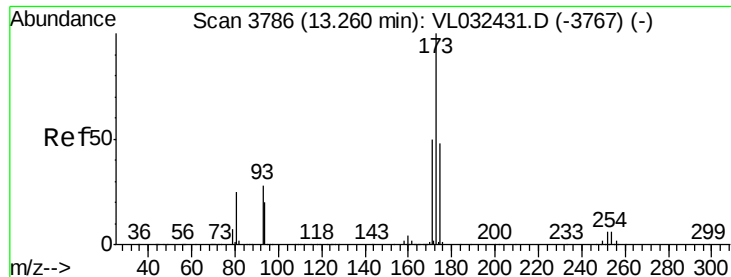
Tgt Ion: 129 Resp: 2260233

Ion Ratio Lower Upper

129 100

127 78.3 39.5 118.3





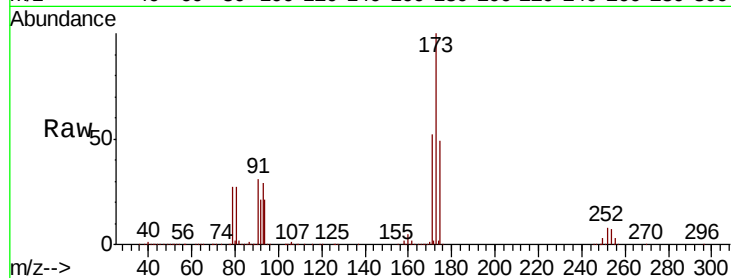
#49
Bromoform
Concen: 9.76 ppbv
RT: 13.25 min Scan# 3208
Delta R.T. -0.01 min
Lab File: VL032481.D
Acq: 10 Sep 2018 14:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.7	38.9	58.3
171	52.0	41.6	62.4

Manual Integrations
APPROVED

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9/12/2018 3:59:32 PM

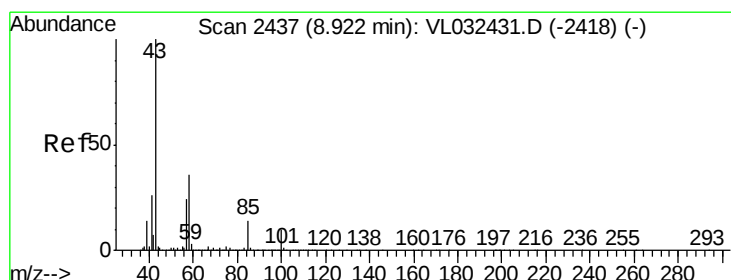
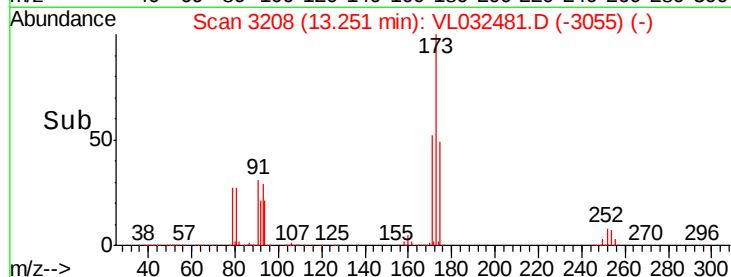
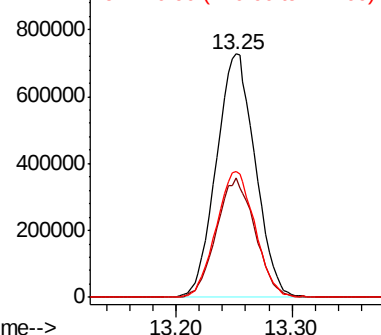


Abundance

Ion 172.90 (172.60 to 173.60): V

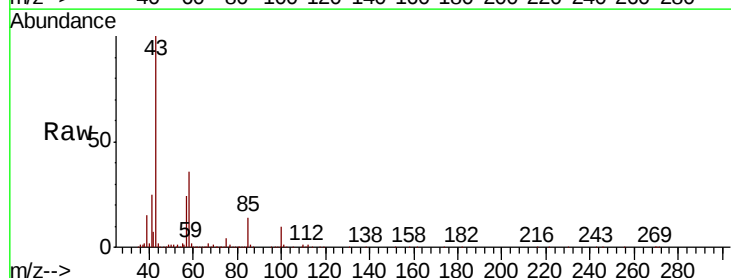
Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50
4-Methyl-2-Pentanone
Concen: 9.73 ppbv
RT: 8.91 min Scan# 1859
Delta R.T. -0.01 min
Lab File: VL032481.D
Acq: 10 Sep 2018 14:58

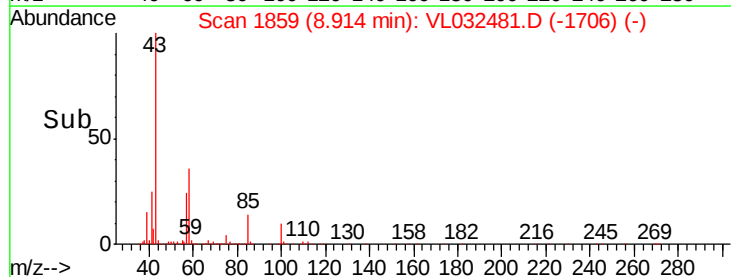
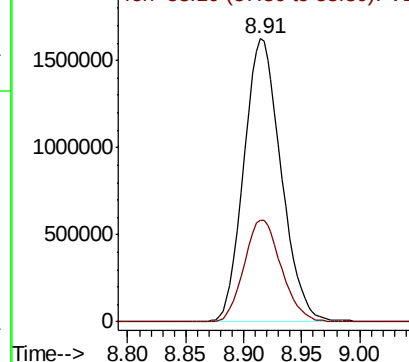
Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.3	29.0	43.4

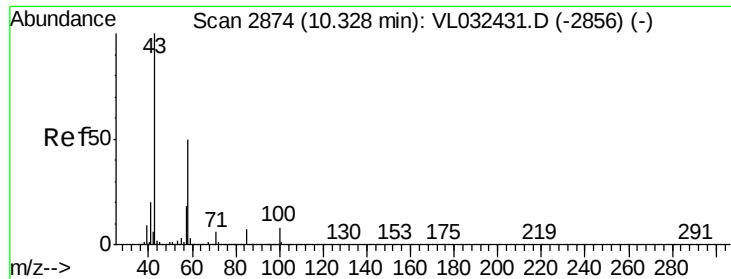


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





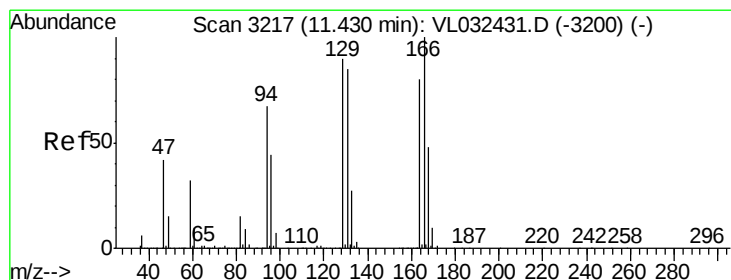
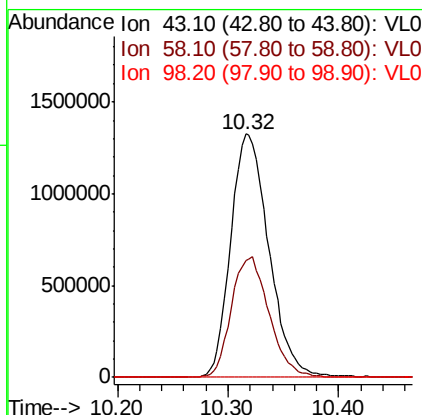
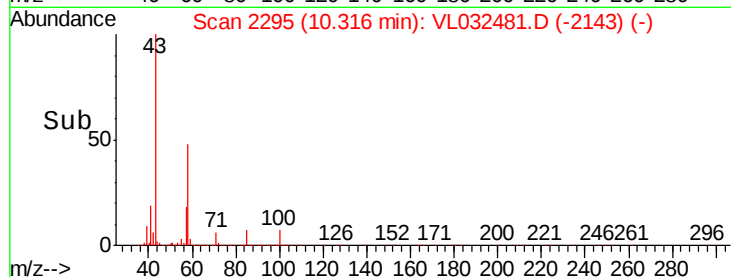
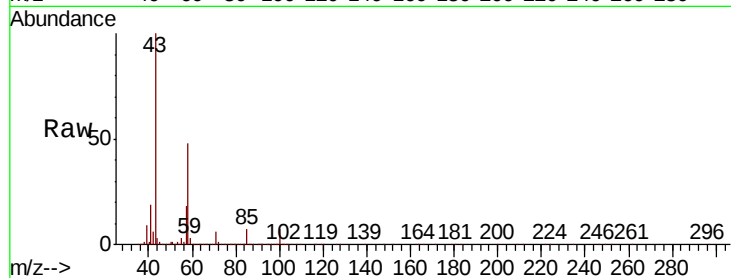
#51
2-Hexanone
Concen: 13.25 ppbv
RT: 10.32 min Scan# 2295
Delta R.T. -0.01 min
Lab File: VL032481.D
Acq: 10 Sep 2018 14:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
43	100		
58	49.3	39.2	58.8
98	0.3	0.4	0.6#

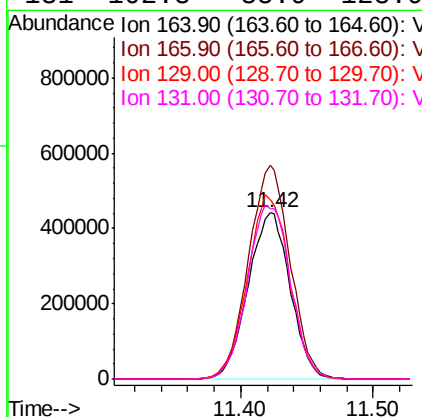
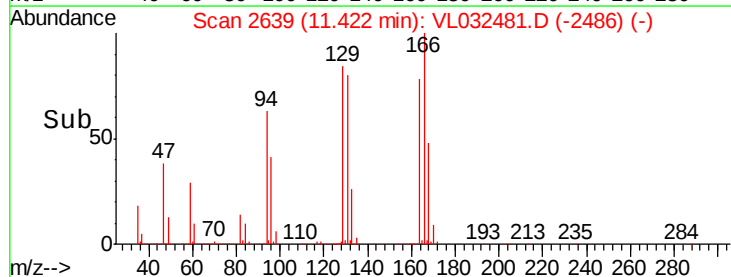
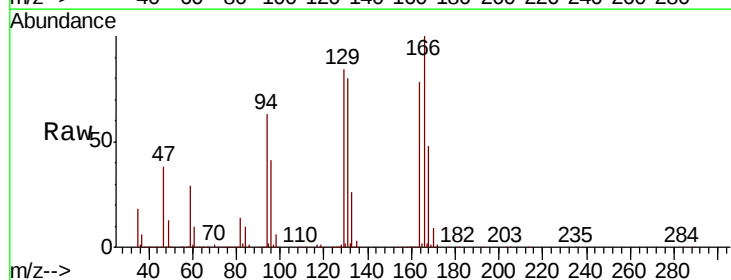
Manual Integrations
APPROVED

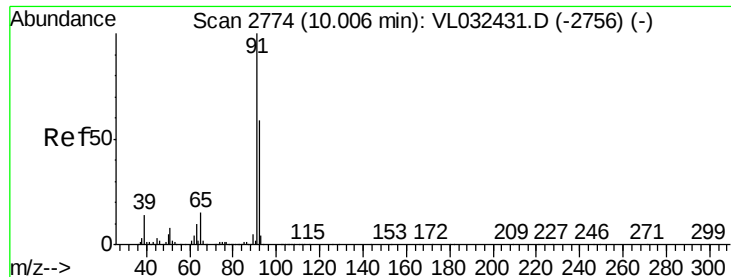
MMDadoda
9/12/2018 3:59:32 PM



#52
Tetrachloroethene
Concen: 9.89 ppbv
RT: 11.42 min Scan# 2639
Delta R.T. -0.01 min
Lab File: VL032481.D
Acq: 10 Sep 2018 14:58

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.7	100.6	150.8
129	108.0	89.9	134.9
131	102.8	85.9	128.9





#53

Toluene

Concen: 12.25 ppbv

RT: 9.99 min Scan# 2195

Delta R.T. -0.01 min

Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 4050470

Ion Ratio Lower Upper

91 100

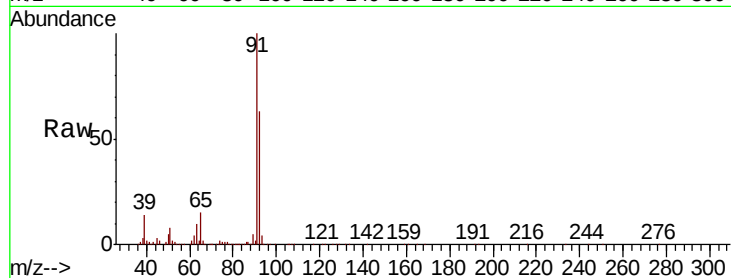
92 60.5 48.1 72.1

Manual Integrations

APPROVED

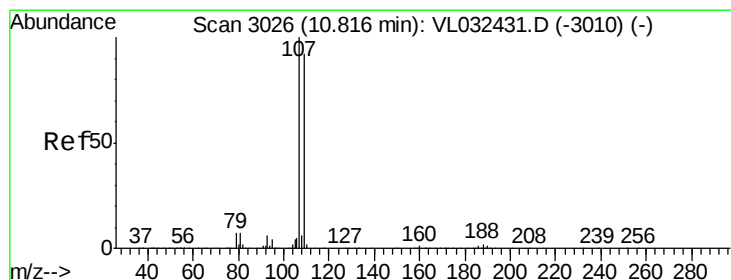
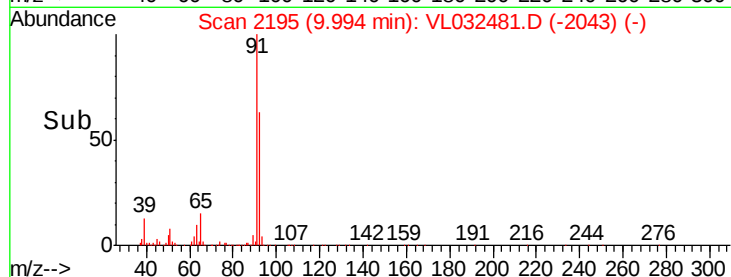
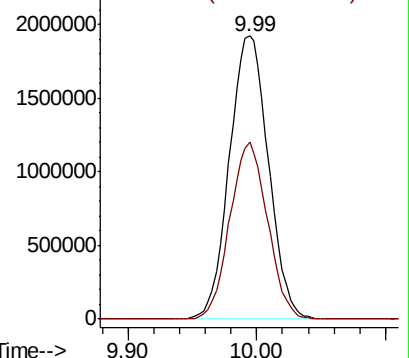
MMDadoda

9/12/2018 3:59:32 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 10.84 ppbv

RT: 10.81 min Scan# 2448

Delta R.T. -0.01 min

Lab File: VL032481.D

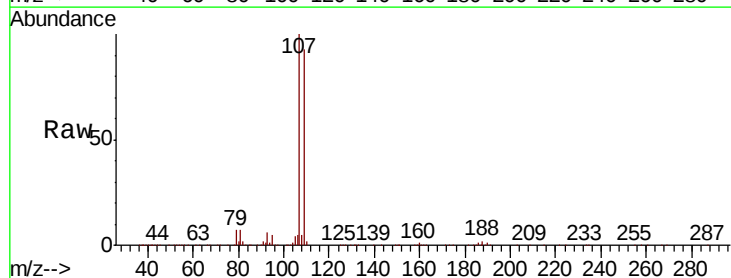
Acq: 10 Sep 2018 14:58

Tgt Ion:107 Resp: 2095388

Ion Ratio Lower Upper

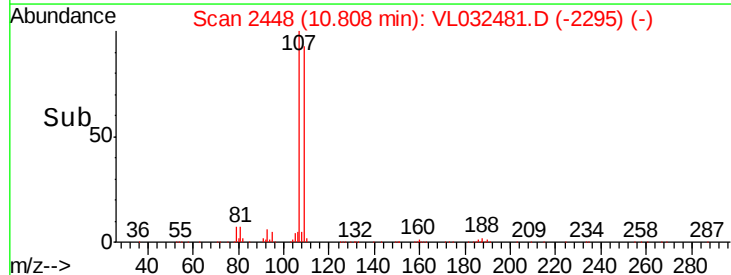
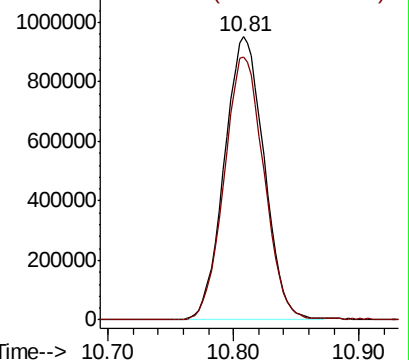
107 100

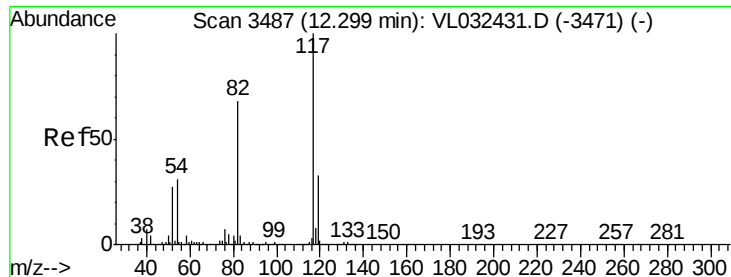
109 93.0 73.9 110.9



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





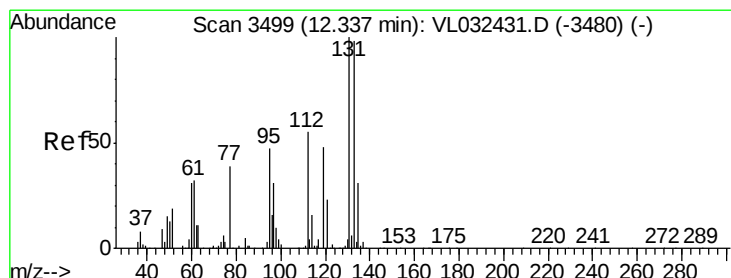
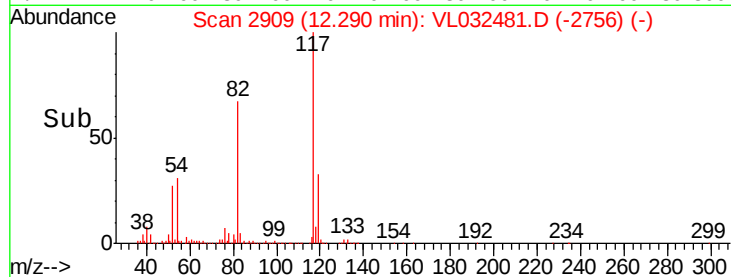
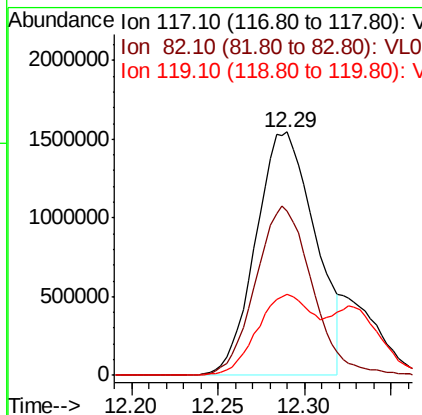
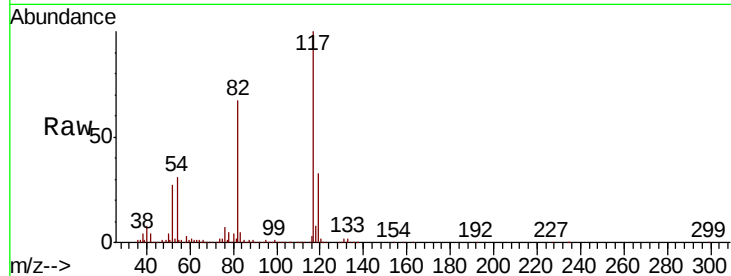
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.29 min Scan# 2909
Delta R.T. -0.01 min
Lab File: VL032481.D
Acq: 10 Sep 2018 14:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:117 Resp: 3696782
Ion Ratio Lower Upper
117 100
82 66.8 53.0 79.6
119 56.1 45.9 68.9

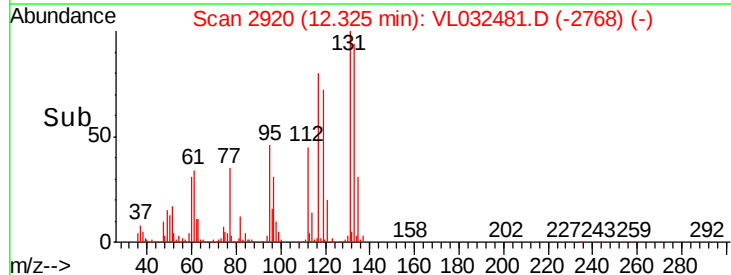
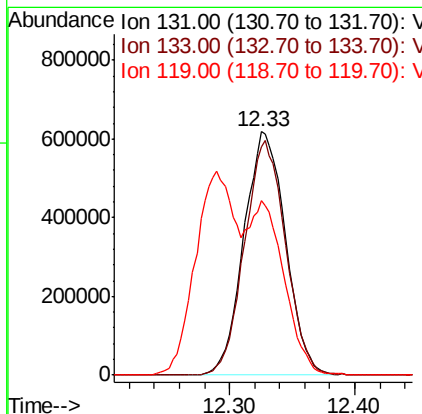
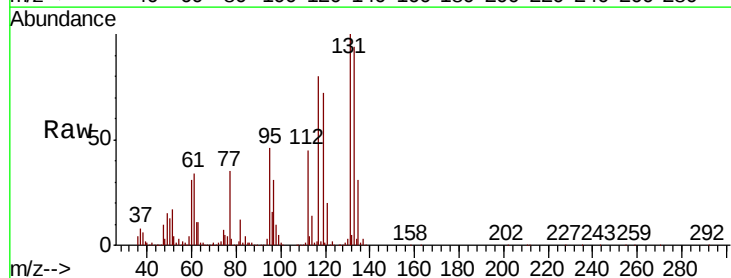
Manual Integrations
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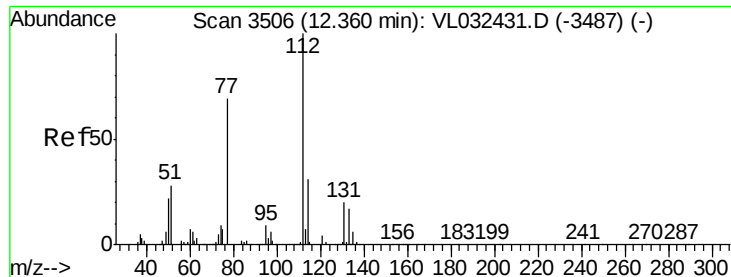
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.54 ppbv
RT: 12.33 min Scan# 2920
Delta R.T. -0.01 min
Lab File: VL032481.D
Acq: 10 Sep 2018 14:58

Tgt Ion:131 Resp: 1423400
Ion Ratio Lower Upper
131 100
133 95.4 77.0 115.4
119 145.4 114.2 171.2





#57

Chlorobenzene

Concen: 8.81 ppbv

RT: 12.35 min Scan# 2928

Delta R.T. -0.01 min

Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 112 Resp: 2602198

Ion Ratio Lower Upper

112 100

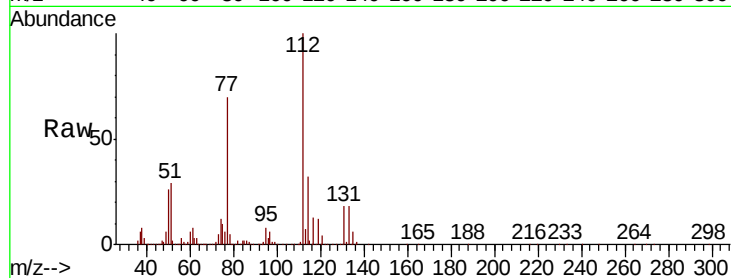
77 69.9 56.1 84.1

114 31.8 27.8 34.0

Manual Integrations
APPROVED

MMDadoda

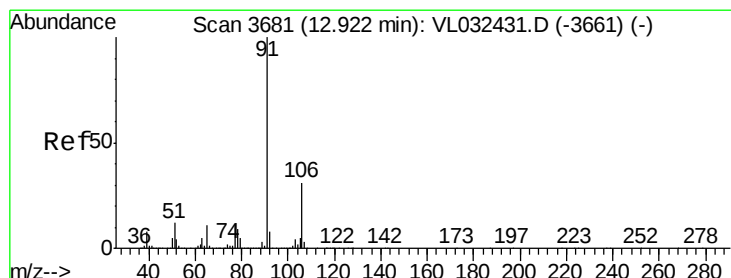
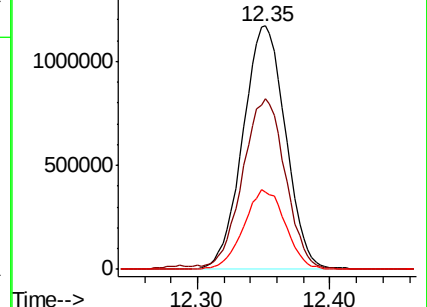
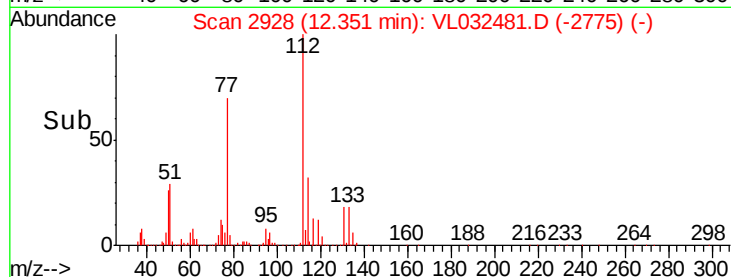
9/12/2018 3:59:32 PM



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: 11.03 ppbv

RT: 12.91 min Scan# 3103

Delta R.T. -0.01 min

Lab File: VL032481.D

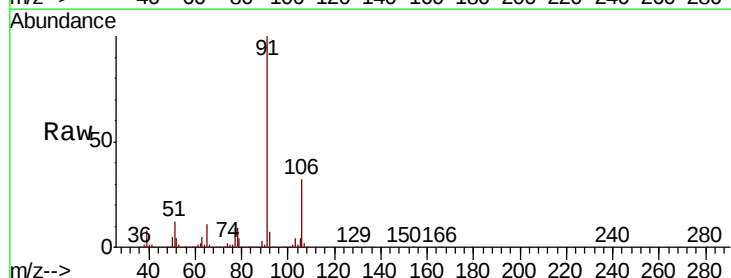
Acq: 10 Sep 2018 14:58

Tgt Ion: 91 Resp: 4877792

Ion Ratio Lower Upper

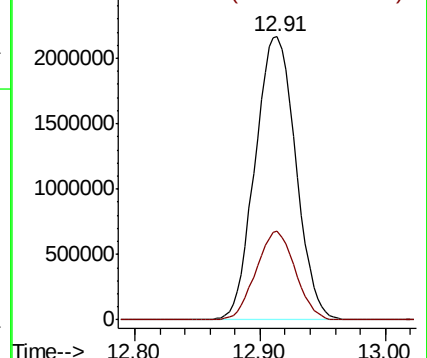
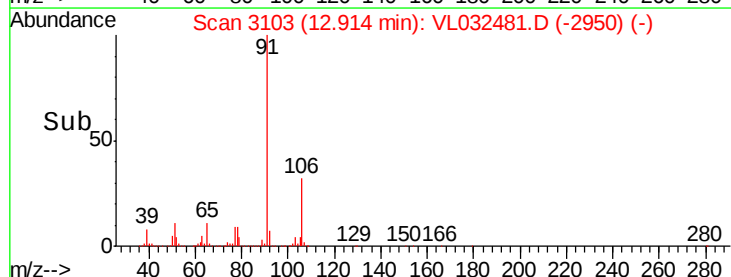
91 100

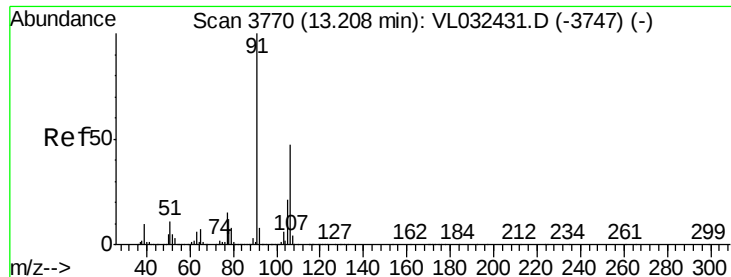
106 31.5 24.8 37.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





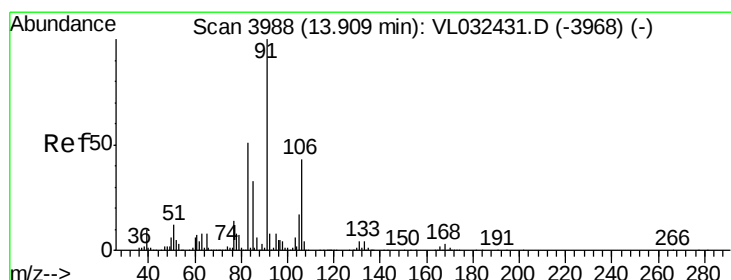
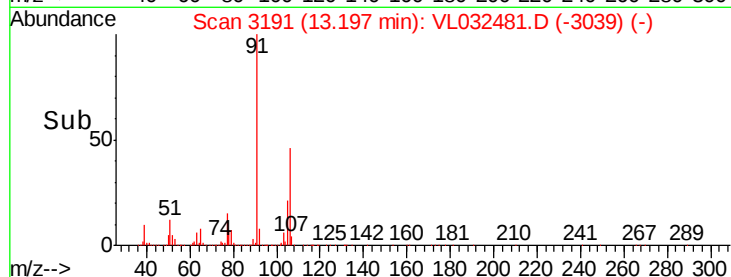
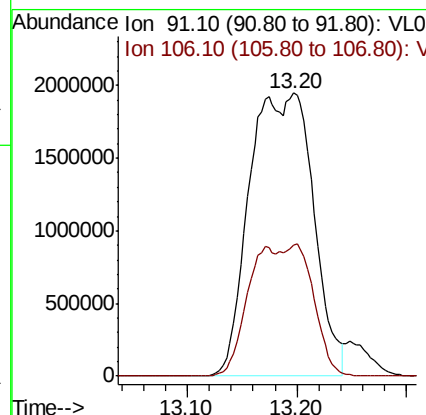
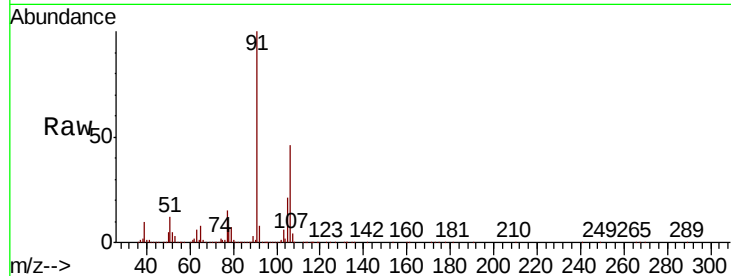
#59
m/p-Xylene
Concen: 20.02 ppbv m
RT: 13.20 min Scan# 3191
Delta R.T. -0.01 min
Lab File: VL032481.D
Acq: 10 Sep 2018 14:58

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 7896852
Ion Ratio Lower Upper
91 100
106 45.9 36.6 55.0

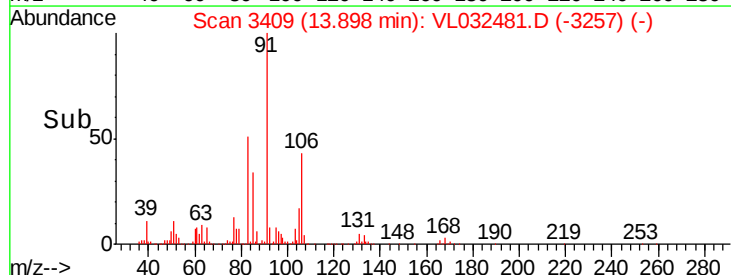
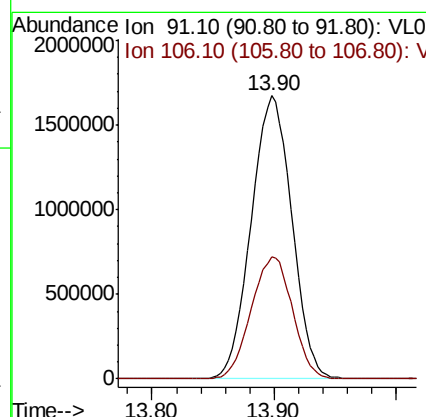
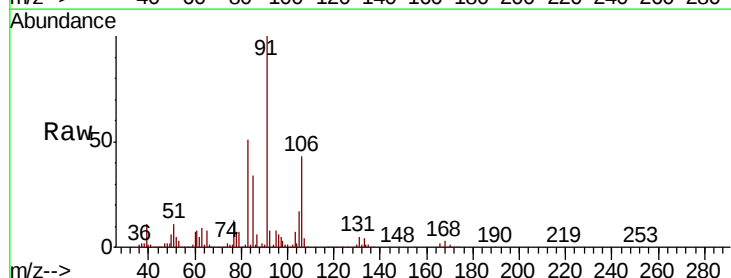
Manual Integrations
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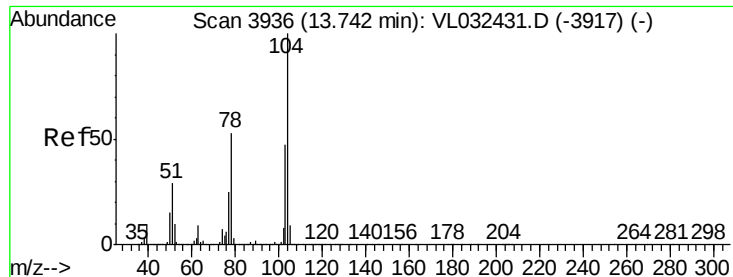
MMDadoda
9/12/2018 3:59:32 PM



#60
o-Xylene
Concen: 9.95 ppbv
RT: 13.90 min Scan# 3409
Delta R.T. -0.01 min
Lab File: VL032481.D
Acq: 10 Sep 2018 14:58

Tgt Ion: 91 Resp: 3854015
Ion Ratio Lower Upper
91 100
106 43.9 21.9 65.7





#61

Stvrene

Concen: 11.75 ppbv

RT: 13.73 min Scan# 3358

Delta R.T. -0.01 min

Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:104 Resp: 2947802

Ion Ratio Lower Upper

104 100

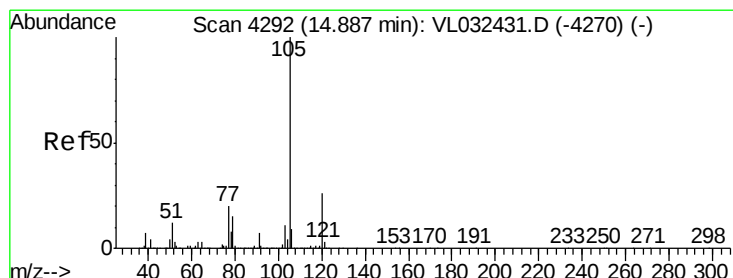
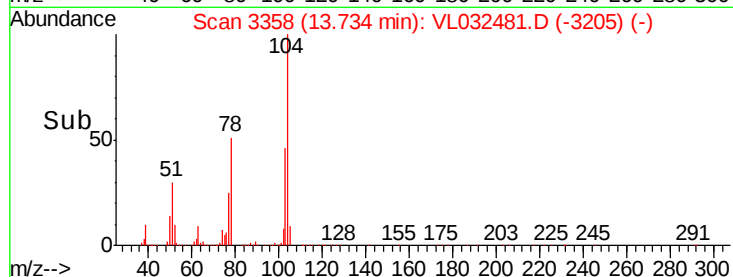
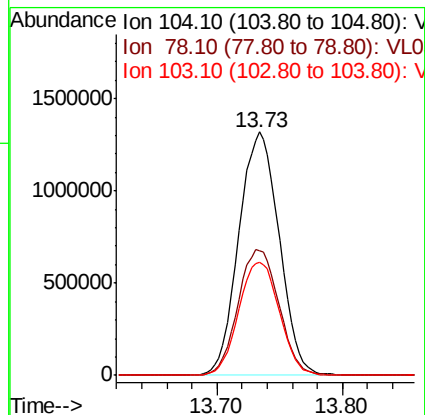
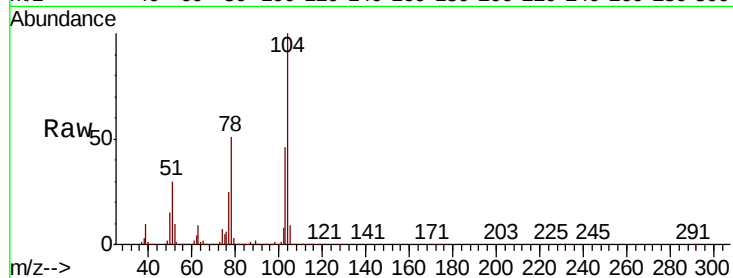
78 52.4 41.8 62.8

103 47.0 38.0 57.0

Manual Integrations
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#62

Isopropylbenzene

Concen: 9.95 ppbv

RT: 14.88 min Scan# 3713

Delta R.T. -0.01 min

Lab File: VL032481.D

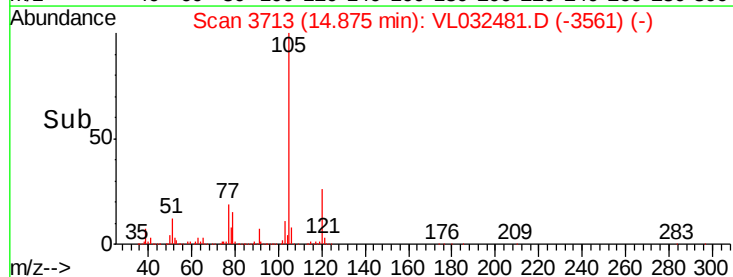
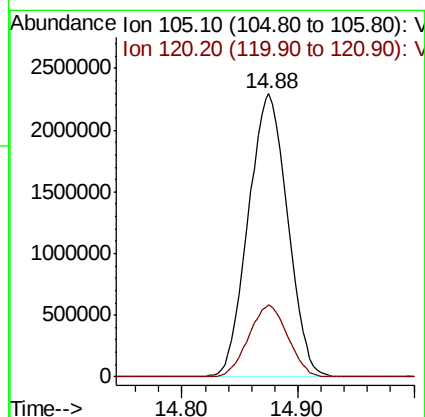
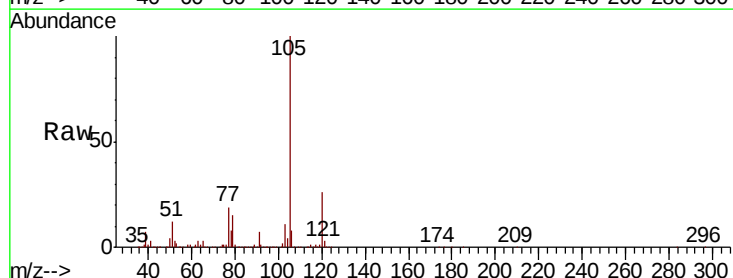
Acq: 10 Sep 2018 14:58

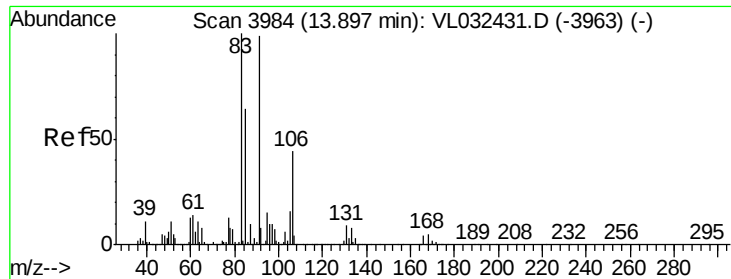
Tgt Ion:105 Resp: 5418112

Ion Ratio Lower Upper

105 100

120 25.3 20.6 31.0





#63

1,1,2,2-Tetrachloroethane

Concen: 8.32 ppbv

RT: 13.88 min Scan# 3405

Delta R.T. -0.01 min

Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

Instrument :

MSVOA_L

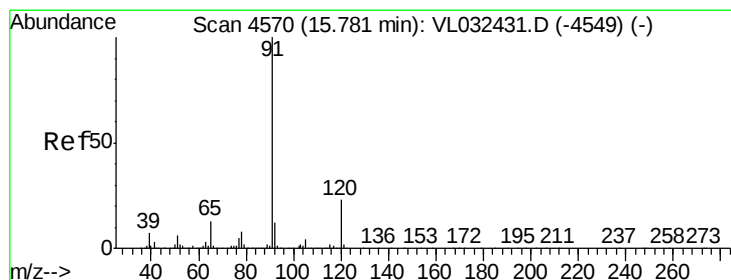
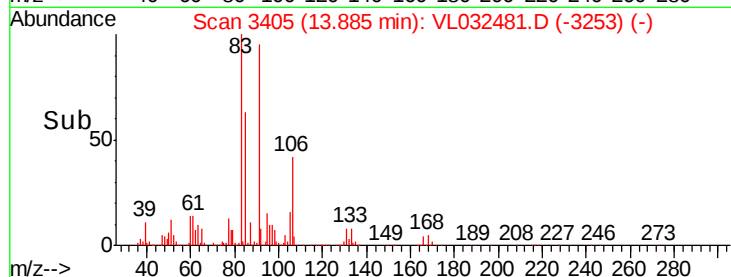
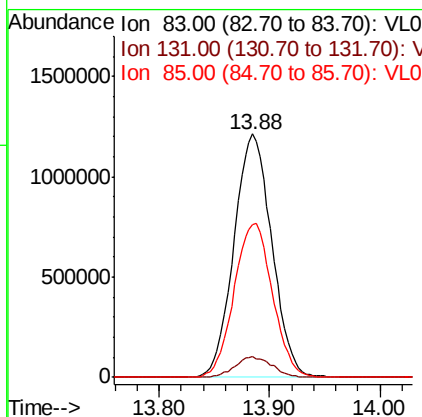
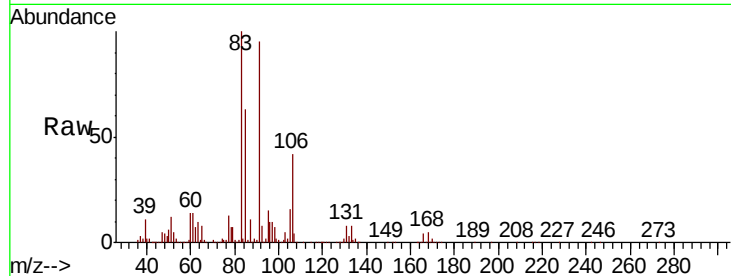
ClientSampleId :

VSTDCCC010

Tot Ion:	83	Resp:	2882947
Ion	Ratio	Lower	Upper
83	100		
131	8.4	4.3	12.8
85	64.4	32.3	96.8

Manual Integrations
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#64

n-propylbenzene

Concen: 9.91 ppbv

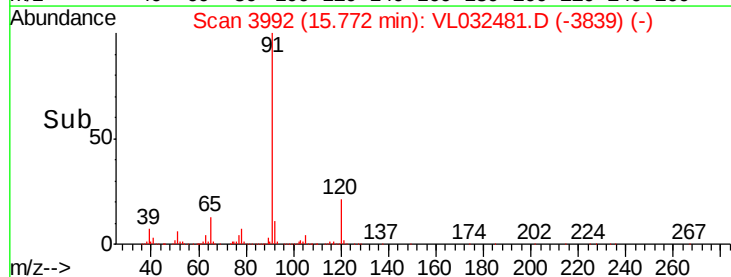
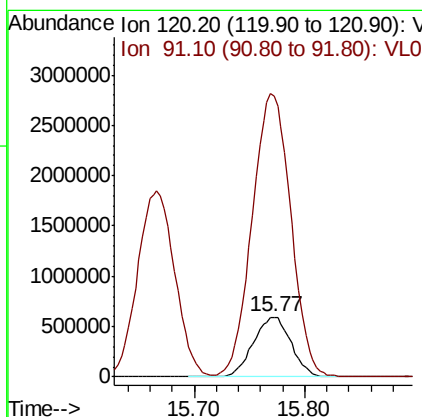
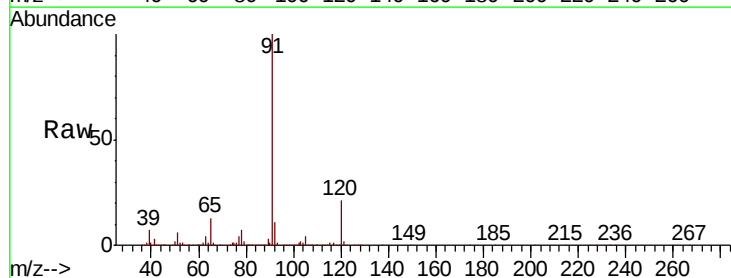
RT: 15.77 min Scan# 3992

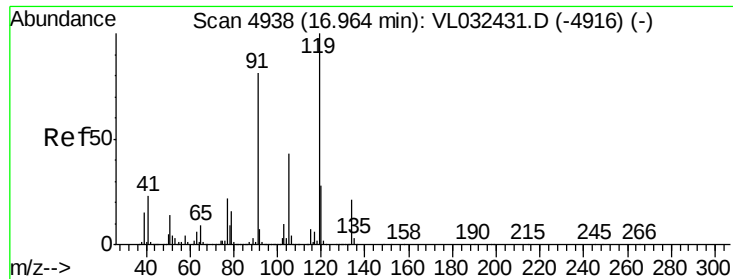
Delta R.T. -0.01 min

Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

Tgt Ion:	120	Resp:	1411008
Ion	Ratio	Lower	Upper
120	100		
91	487.2	381.8	572.6





#65

tert-Butylbenzene

Concen: 9.73 ppbv

RT: 16.96 min Scan# 4360

Delta R.T. -0.01 min

Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:119 Resp: 4567797

Ion Ratio Lower Upper

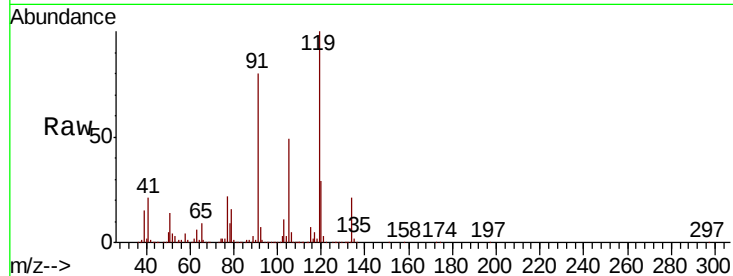
119 100

91 83.1 66.5 99.7

134 19.7 16.0 24.0

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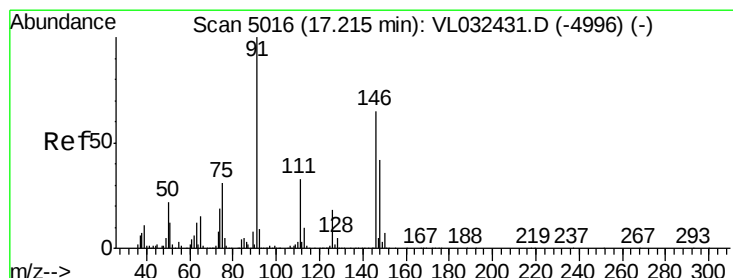
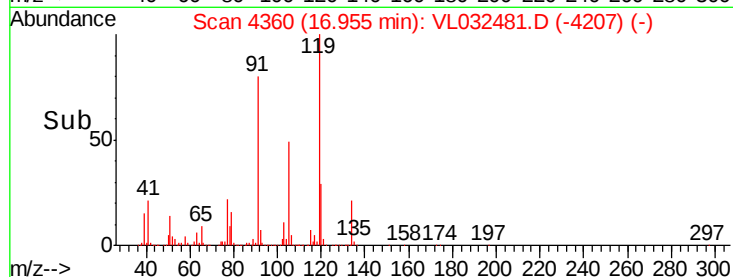
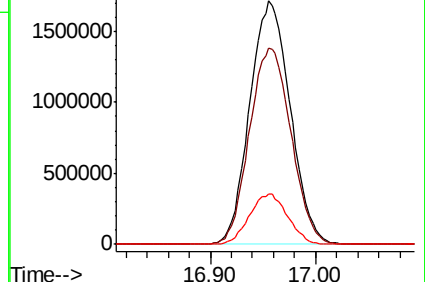
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 11.19 ppbv

RT: 17.20 min Scan# 4437

Delta R.T. -0.01 min

Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

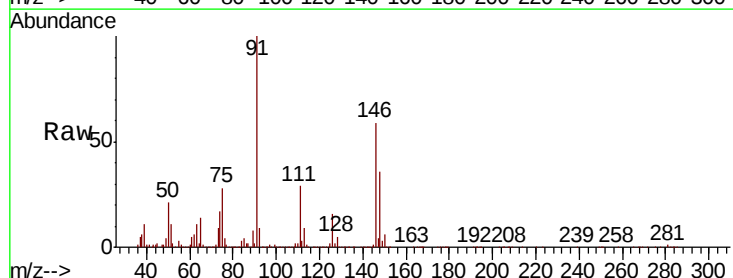
Tgt Ion: 91 Resp: 2926649

Ion Ratio Lower Upper

91 100

126 17.1 13.8 20.8

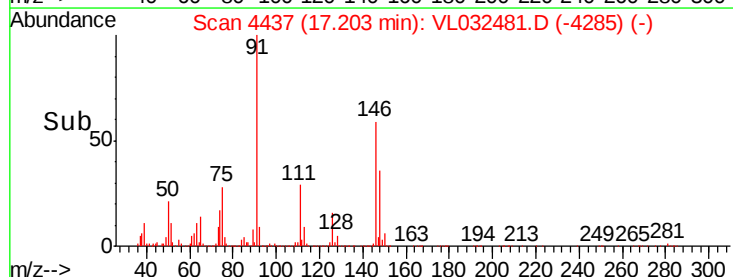
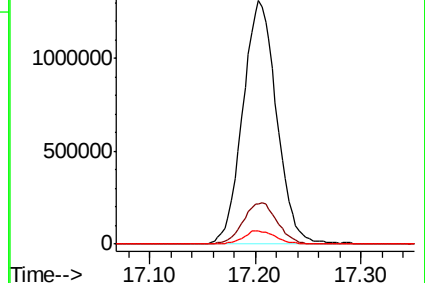
128 5.5 4.4 6.6

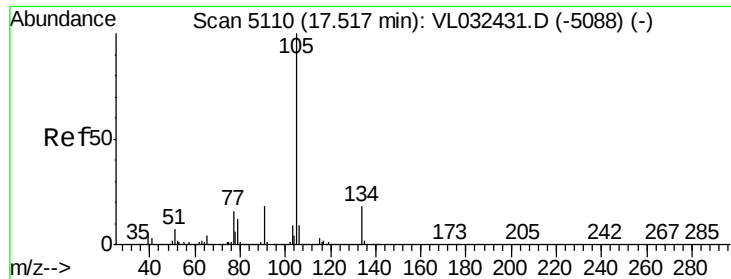


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.73 ppbv

RT: 17.51 min Scan# 4531

Delta R.T. -0.01 min

Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 6868856

Ion Ratio Lower Upper

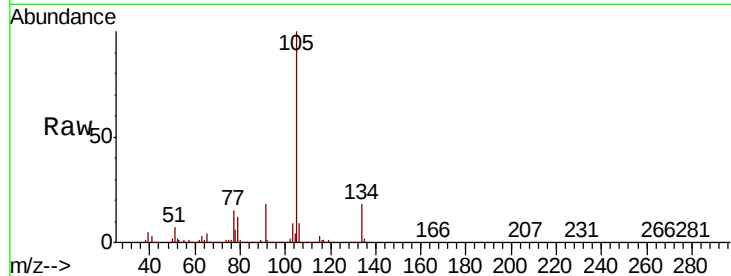
105 100

134 17.7 14.4 21.6

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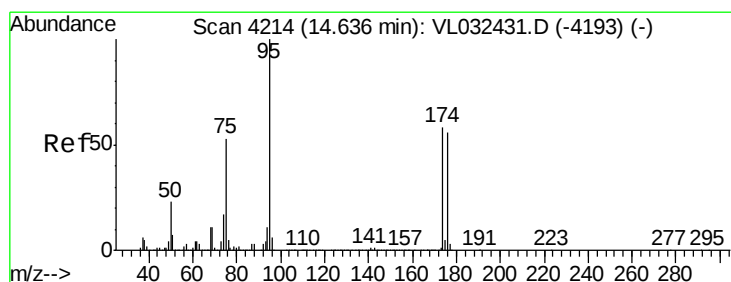
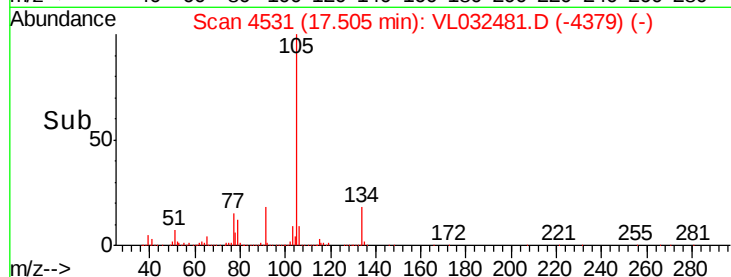
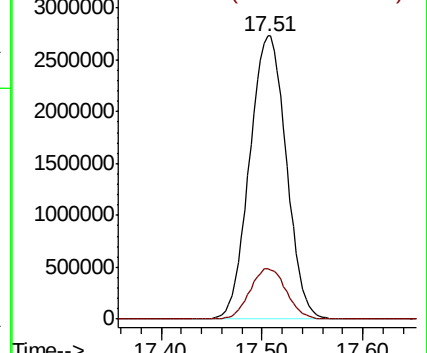
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.22 ppbv

RT: 14.62 min Scan# 3635

Delta R.T. -0.01 min

Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

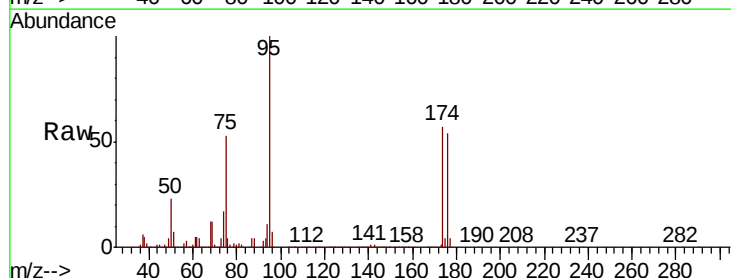
Tgt Ion: 95 Resp: 2804927

Ion Ratio Lower Upper

95 100

174 57.1 46.3 69.5

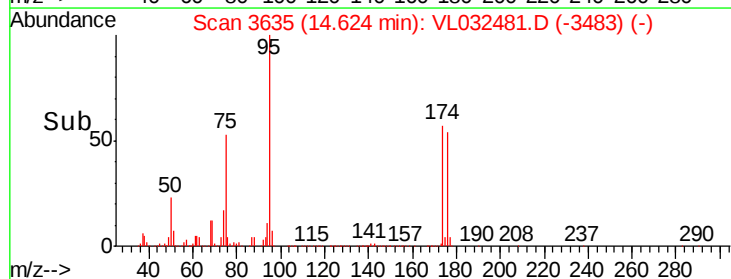
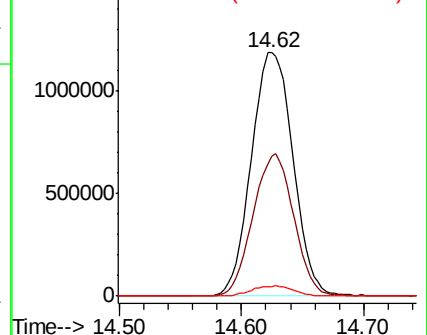
175 4.2 3.4 5.0

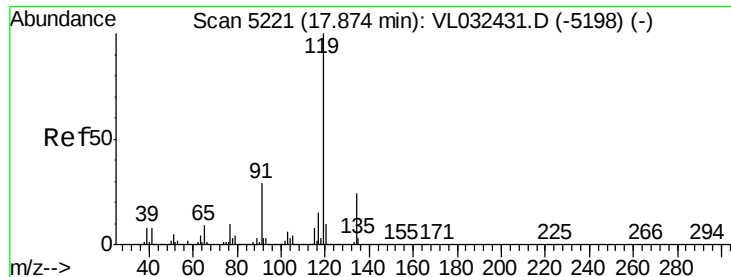


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 9.96 ppbv

RT: 17.86 min Scan# 4642

Delta R.T. -0.01 min

Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 119 Resp: 5445363

Ion Ratio Lower Upper

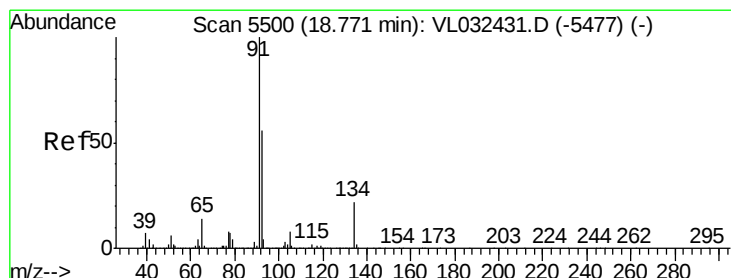
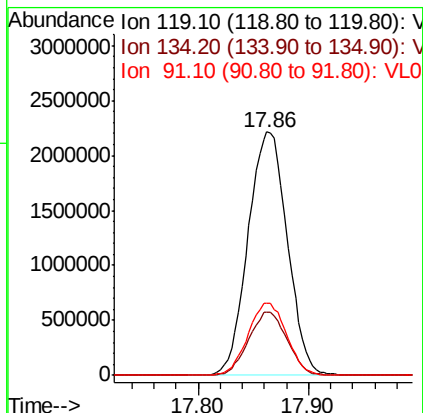
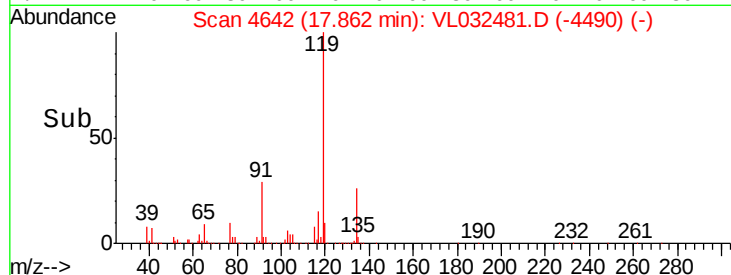
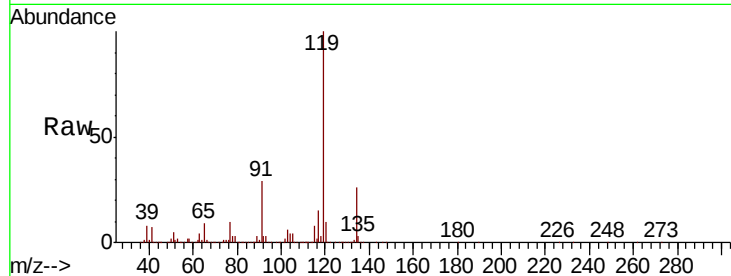
119 100

134 25.5 20.4 30.6

91 29.3 23.4 35.2

Manual Integrations
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#70

n-Butylbenzene

Concen: 9.73 ppbv

RT: 18.76 min Scan# 4921

Delta R.T. -0.01 min

Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

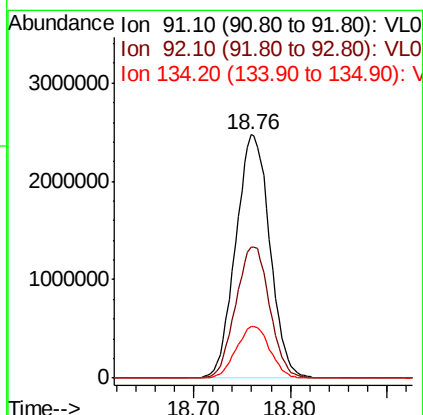
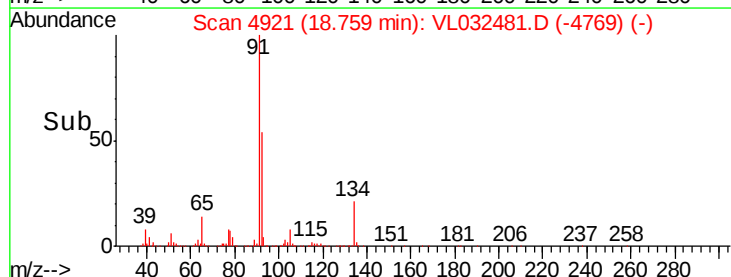
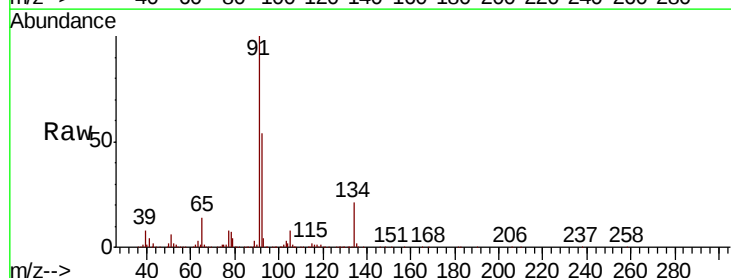
Tgt Ion: 91 Resp: 6035402

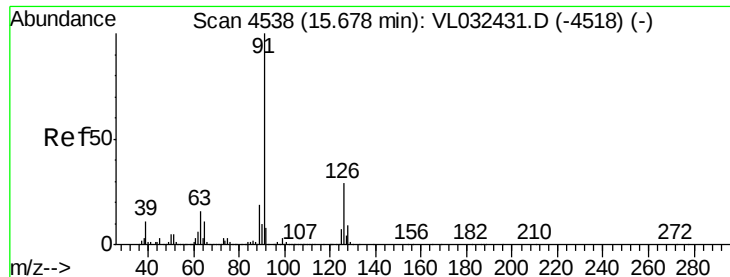
Ion Ratio Lower Upper

91 100

92 54.0 43.8 65.8

134 21.1 17.4 26.0





#71

2-Chlorotoluene

Concen: 10.41 ppbv

RT: 15.67 min Scan# 3959

Delta R.T. -0.01 min

Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 4330627

Ion Ratio Lower Upper

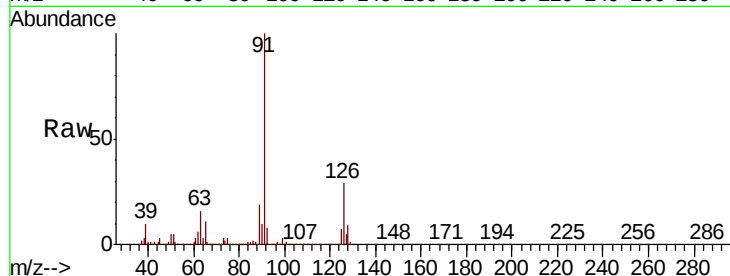
91 100

126 29.3 11.9 47.7

Manual Integrations
APPROVED

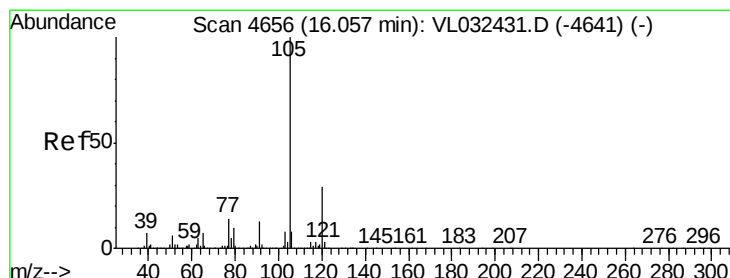
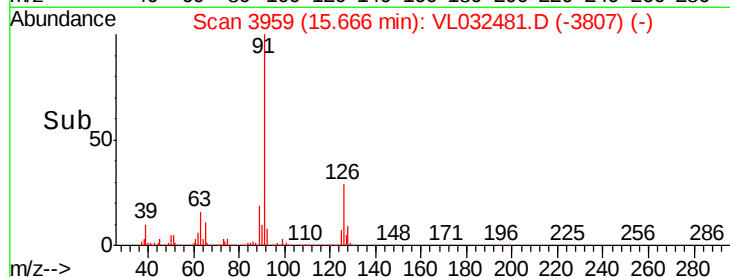
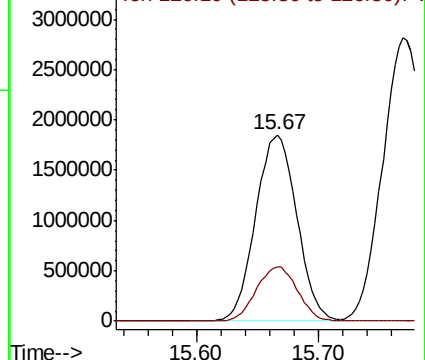
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 10.69 ppbv

RT: 16.05 min Scan# 4077

Delta R.T. -0.01 min

Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

Tgt Ion: 105 Resp: 4520113

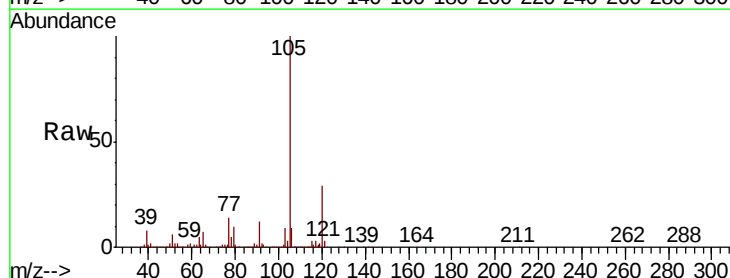
Ion Ratio Lower Upper

105 100

120 29.0 23.5 35.3

91 12.3 10.2 15.2

77 13.7 11.1 16.7

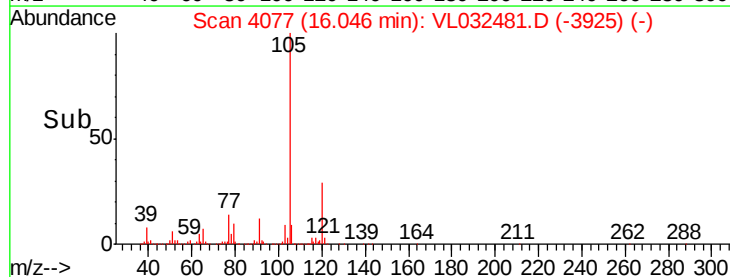
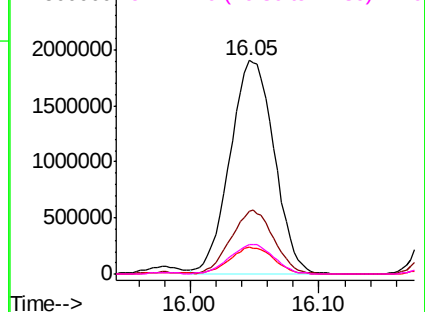


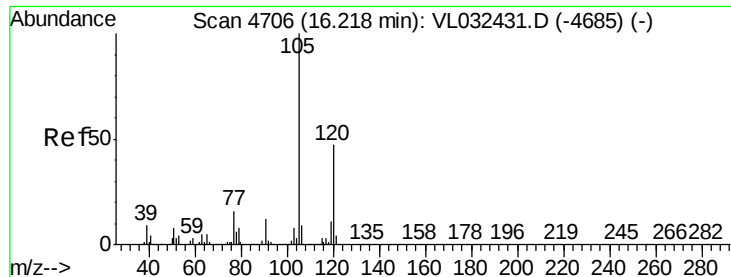
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 10.16 ppbv

RT: 16.21 min Scan# 4128

Delta R.T. -0.01 min

Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 4305523

Ion Ratio Lower Upper

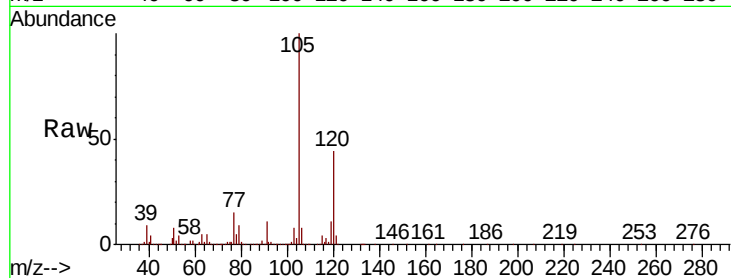
105 100

120 44.3 37.9 56.9

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

2000000

1500000

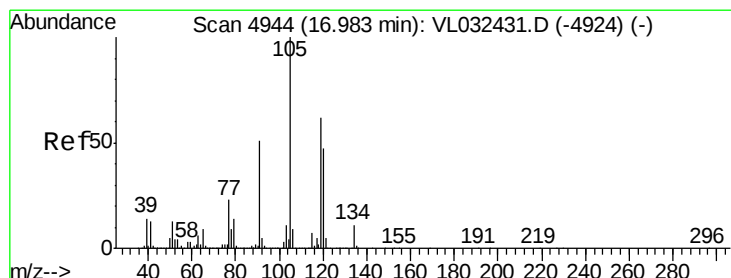
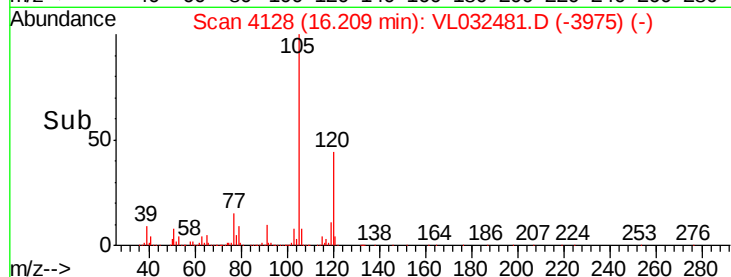
1000000

500000

0

16.10 16.20 16.30

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 9.30 ppbv

RT: 16.97 min Scan# 4366

Delta R.T. -0.01 min

Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

Tgt Ion:105 Resp: 4308243

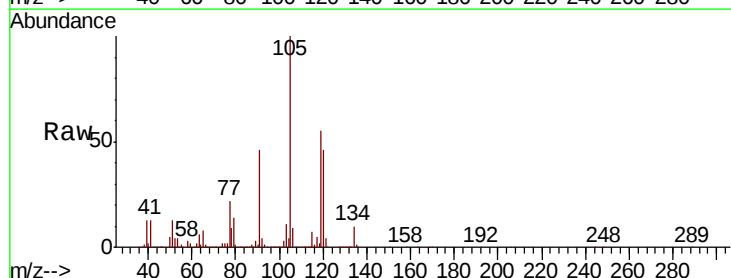
Ion Ratio Lower Upper

105 100

120 46.3 37.8 56.8

91 46.3 41.4 62.0

77 21.5 18.6 28.0



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

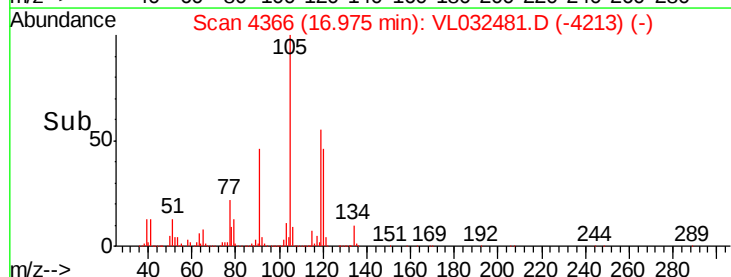
1000000

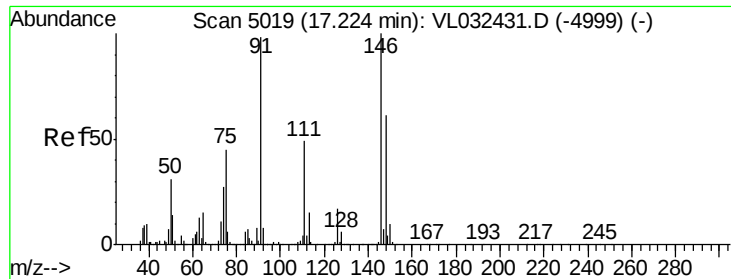
500000

0

16.90 17.00

Time-->





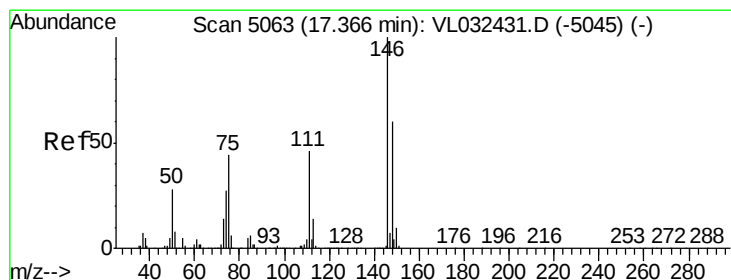
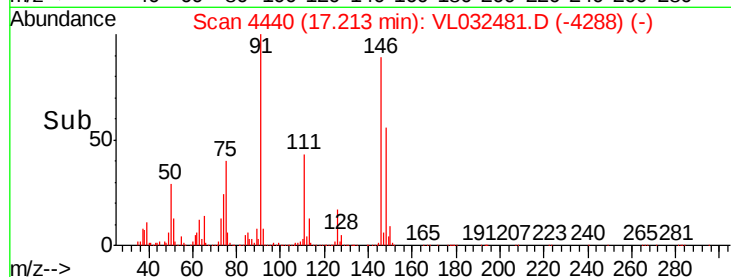
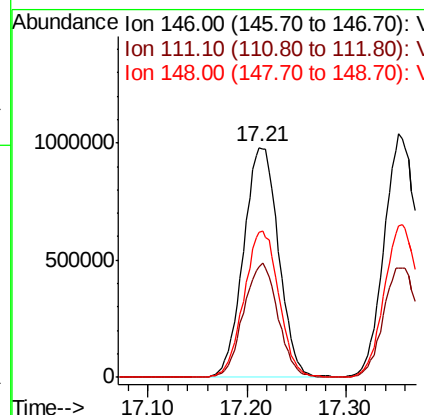
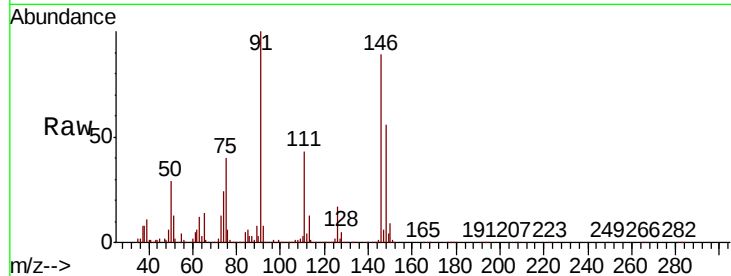
#75
 1,3-Dichlorobenzene
 Concen: 8.80 ppbv
 RT: 17.21 min Scan# 4440
 Delta R.T. -0.01 min
 Lab File: VL032481.D
 Acq: 10 Sep 2018 14:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:146 Resp: 2420251
 Ion Ratio Lower Upper
 146 100
 111 48.5 24.5 73.5
 148 63.1 32.0 96.2

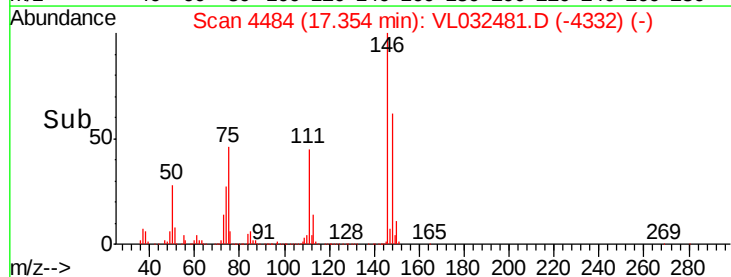
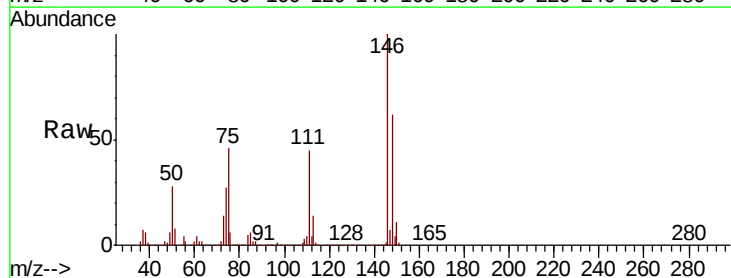
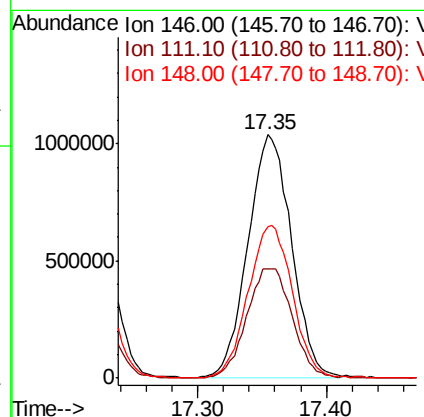
Manual Integrations
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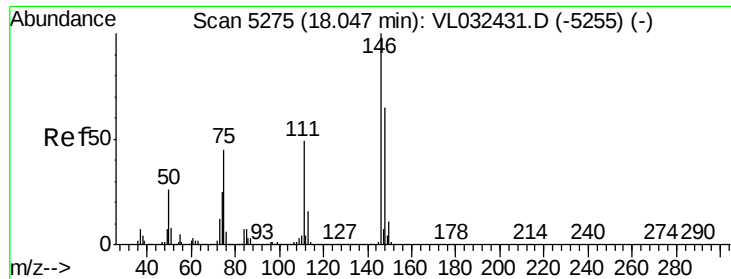
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#76
 1,4-Dichlorobenzene
 Concen: 9.52 ppbv
 RT: 17.35 min Scan# 4484
 Delta R.T. -0.01 min
 Lab File: VL032481.D
 Acq: 10 Sep 2018 14:58

Tgt Ion:146 Resp: 2427167
 Ion Ratio Lower Upper
 146 100
 111 47.4 23.4 70.2
 148 64.3 32.0 96.2





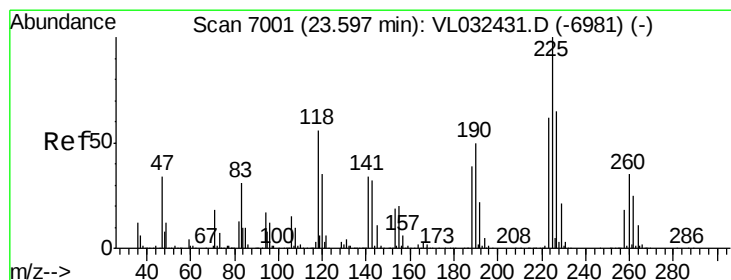
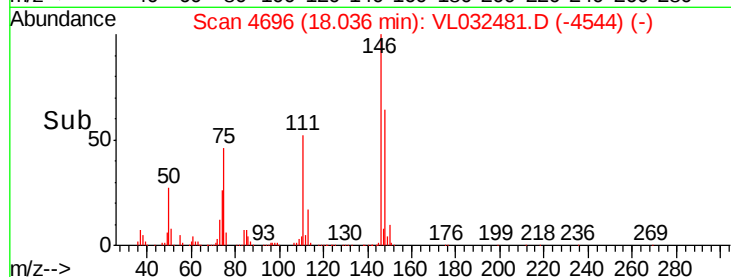
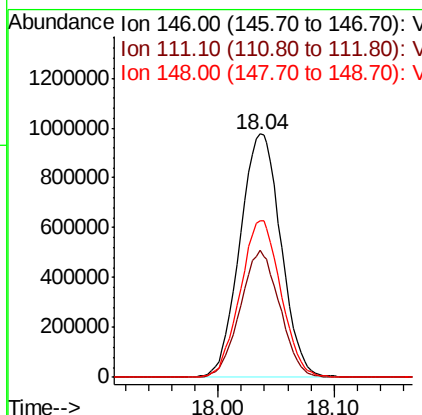
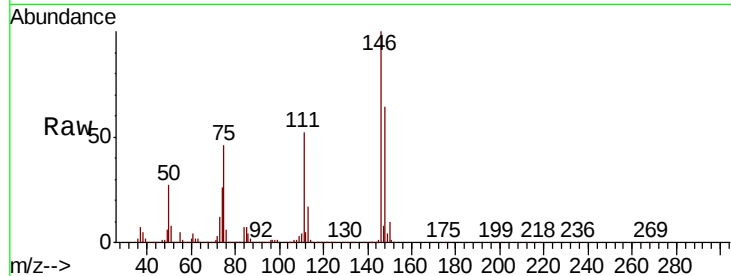
#77
 1,2-Dichlorobenzene
 Concen: 9.03 ppbv
 RT: 18.04 min Scan# 4696
 Delta R.T. -0.01 min
 Lab File: VL032481.D
 Acq: 10 Sep 2018 14:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.4	24.9	74.8
148	64.1	32.0	96.0

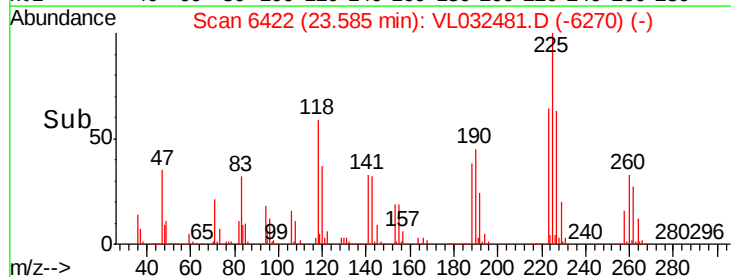
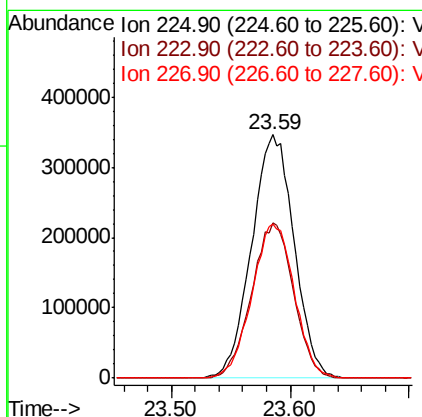
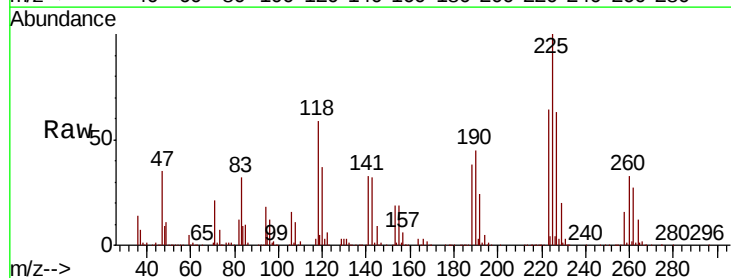
Manual Integrations
 APPROVED

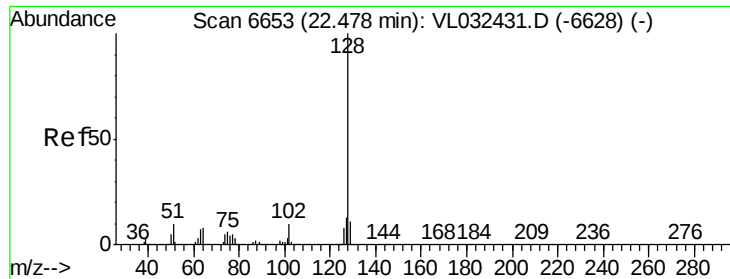
MMDadoda
 9/12/2018 3:59:32 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.63 ppbv
 RT: 23.59 min Scan# 6422
 Delta R.T. -0.01 min
 Lab File: VL032481.D
 Acq: 10 Sep 2018 14:58

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.6	76.0
227	63.1	51.2	76.8





#79

Naphthalene

Concen: 10.57 ppbv

RT: 22.47 min Scan# 6075

Delta R.T. -0.01 min

Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:128 Resp: 3982966

Ion Ratio Lower Upper

128 100

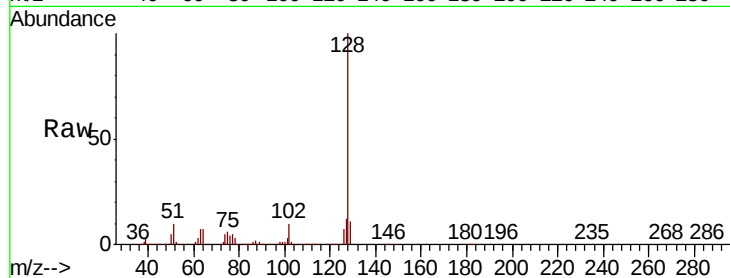
127 11.8 10.2 15.2

129 10.6 8.5 12.7

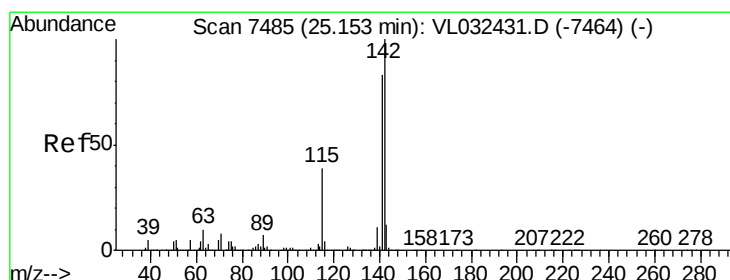
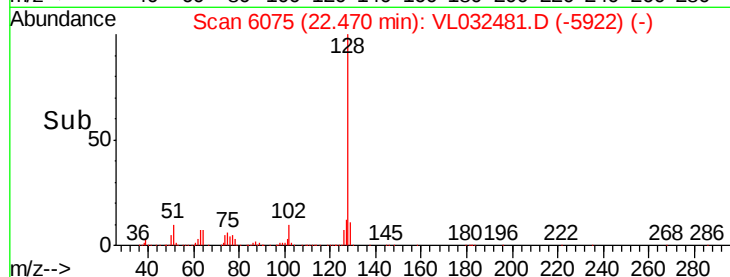
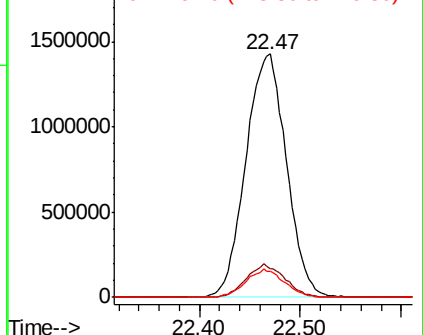
Manual Integrations
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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 14.34 ppbv

RT: 25.15 min Scan# 6908

Delta R.T. -0.01 min

Lab File: VL032481.D

Acq: 10 Sep 2018 14:58

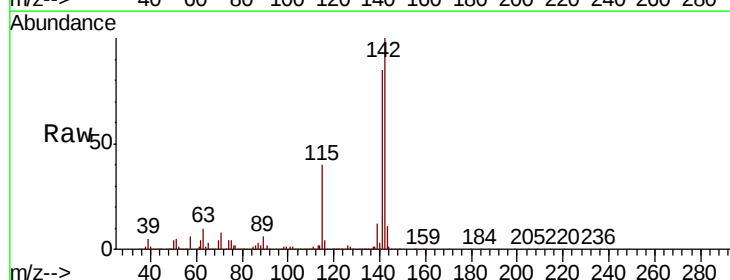
Tgt Ion:142 Resp: 1437268

Ion Ratio Lower Upper

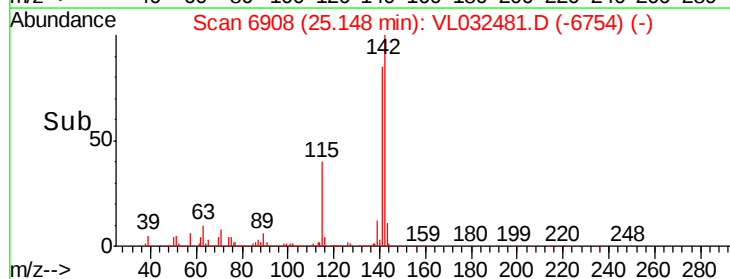
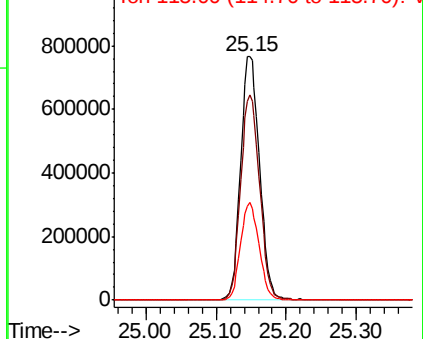
142 100

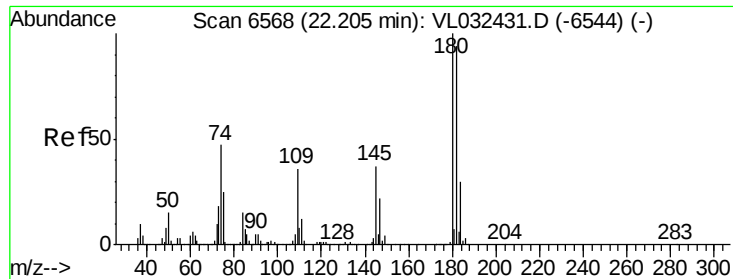
141 84.7 67.0 100.6

115 39.6 31.3 46.9



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: 9.98 ppbv
 RT: 22.19 min Scan# 5988
 Delta R.T. -0.01 min
 Lab File: VL032481.D
 Acq: 10 Sep 2018 14:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.1	114.1
184	30.2	23.8	35.8

Manual Integrations
 APPROVED

MMDadoda
 9/12/2018 3:59:32 PM

