

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101619\
 Data File : VL034299.D
 Acq On : 16 Oct 2019 13:33
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 3:03:47 PM

Quant Time: Oct 16 17:23:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Oct 16 17:23:56 2019
 QLast Update : Wed Oct 16 16:52:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1212884	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	2312455	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.15	117	2445041	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	2038090	9.59	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	504472	2.816	ppbv	95
3) Chlorodifluoromethane	2.97	51	293694	2.065	ppbv	98
4) Chloromethane	3.12	50	174163	2.084	ppbv	97
5) Vinyl Chloride	3.24	62	154523	2.023	ppbv	95
6) Bromomethane	3.46	94	77010	2.161	ppbv	84
7) Chloroethane	3.55	64	58483	2.191	ppbv	99
8) Dichlorotetrafluoroethane	3.17	85	383685	2.427	ppbv	98
9) Propene	2.99	41	133000	1.896	ppbv	99
10) Heptane	8.17	43	335457	1.835	ppbv	98
11) Trichlorofluoromethane	3.95	101	415861	2.550	ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.49	101	269282	2.523	ppbv	98
13) Ethanol	3.60	45	28151m	1.657	ppbv	
14) Bromoethene	3.73	108	108813	2.494	ppbv	99
15) Acetone	3.85	43	368168	2.265	ppbv	99
16) 1,3-Butadiene	3.31	39	141624	1.996	ppbv	99
17) tert-Butyl alcohol	4.30	59	173086m	1.680	ppbv	
18) 1,1-Dichloroethene	4.29	96	118984m	2.556	ppbv	
19) Isopropyl Alcohol	3.97	45	147919m	1.480	ppbv	
20) Methylene Chloride	4.34	84	139234	2.971	ppbv	96
21) Allyl Chloride	4.41	41	195314	2.127	ppbv	98
22) trans-1,2-Dichloroethene	4.90	96	119105	2.557	ppbv	96
23) Vinyl Acetate	5.09	43	455053	1.900	ppbv	98
24) 1,1-Dichloroethane	5.02	63	337692	2.094	ppbv	99
25) Ethyl Acetate	5.70	43	621185	2.021	ppbv	98
26) Hexane	5.71	57	265173	2.074	ppbv	97
27) Carbon Disulfide	4.56	76	266761	2.262	ppbv	99
28) Methyl tert-Butyl Ether	5.05	73	395044	2.080	ppbv	100
29) Chloroform	5.77	83	408396	2.235	ppbv	97
30) Cyclohexane	7.17	84	183877	1.992	ppbv	99
31) cis-1,2-Dichloroethene	5.56	61	263344	2.020	ppbv #	88
32) 1,1,1-Trichloroethane	6.54	97	381720	2.166	ppbv	99
34) 2-Butanone	5.27	43	394401	1.670	ppbv	99
35) Carbon Tetrachloride	7.05	117	406912	2.118	ppbv	93
36) Benzene	6.92	78	471896	1.848	ppbv	97
37) 1,2-Dichloroethane	6.33	62	343892	1.893	ppbv	100
38) Trichloroethene	7.88	130	184990	2.027	ppbv #	94
39) 1,2-Dichloropropane	7.65	63	196736	1.714	ppbv	99
40) 1,4-Dioxane	7.89	88	56467m	1.521	ppbv	
41) Tetrahydrofuran	6.08	42	214248	1.611	ppbv	99
42) Bromodichloromethane	7.83	83	429592	1.971	ppbv	98
43) Methyl Methacrylate	8.06	69	190225	1.803	ppbv	99

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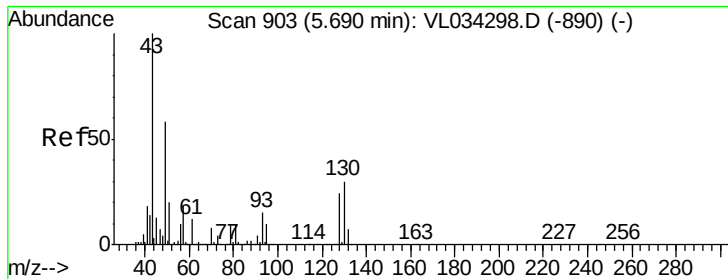
Manual Integrations
 APPROVED

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 10/18/2019 3:03:47 PM

Quant Time: Oct 16 17:23:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Oct 16 2019
 QLast Update : Wed Oct 16 16:52:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.91	57	886434	1.803	ppbv	99
45) t-1,3-Dichloropropene	9.33	75	222090	1.780	ppbv	98
46) cis-1,3-Dichloropropene	8.75	75	264478	1.763	ppbv	94
47) 1,1,2-Trichloroethane	9.53	97	202116	1.962	ppbv	95
48) Dibromochloromethane	10.36	129	335206	2.052	ppbv	100
49) Bromoform	13.11	173	294935	2.232	ppbv	98
50) 4-Methyl-2-Pentanone	8.79	43	585314	1.703	ppbv	99
51) 2-Hexanone	10.19	43	470192	1.630	ppbv #	96
52) Tetrachloroethene	11.28	164	169593	2.010	ppbv	91
53) Toluene	9.86	91	528142	1.892	ppbv	98
54) 1,2-Dibromoethane	10.67	107	298175	1.946	ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.19	131	235900	2.163	ppbv #	1
57) Chlorobenzene	12.21	112	419531m	1.971	ppbv	
58) Ethyl Benzene	12.77	91	745465	1.890	ppbv	96
59) m/p-Xylene	13.03	91	1261147m	3.859	ppbv	
60) o-Xylene	13.76	91	634557	1.942	ppbv	97
61) Styrene	13.59	104	453520m	1.938	ppbv	
62) Isopropylbenzene	14.74	105	845059	1.998	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.74	83	461267m	1.722	ppbv	
64) n-propylbenzene	15.64	120	212931	1.990	ppbv	91
65) tert-Butylbenzene	16.82	119	764269	2.068	ppbv	98
66) Benzyl Chloride	17.06	91	257721	1.971	ppbv	99
67) sec-Butylbenzene	17.37	105	1089457	2.061	ppbv	97
69) p-Isopropyltoluene	17.73	119	889403	2.078	ppbv	98
70) n-Butylbenzene	18.63	91	975018	1.957	ppbv	96
71) 2-Chlorotoluene	15.53	91	663185	1.919	ppbv	98
72) 4-Ethyltoluene	15.91	105	723917	1.961	ppbv	99
73) 1,3,5-Trimethylbenzene	16.07	105	705578	1.978	ppbv	99
74) 1,2,4-Trimethylbenzene	16.84	105	769664m	2.033	ppbv	
75) 1,3-Dichlorobenzene	17.07	146	426223	2.098	ppbv	99
76) 1,4-Dichlorobenzene	17.22	146	423538	2.036	ppbv	99
77) 1,2-Dichlorobenzene	17.90	146	426452	2.074	ppbv	99
78) Hexachloro-1,3-Butadiene	23.46	225	357335	2.624	ppbv	98
79) Naphthalene	22.31	128	529898	1.590	ppbv	98
80) Naphthalene, 2-methyl-	25.05	142	113756	0.734	ppbv	95
81) 1,2,4-Trichlorobenzene	22.03	180	341814	1.851	ppbv	99

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



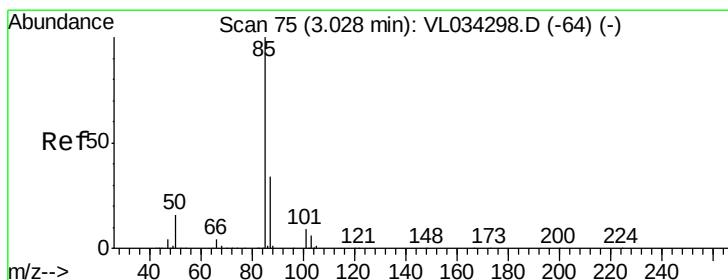
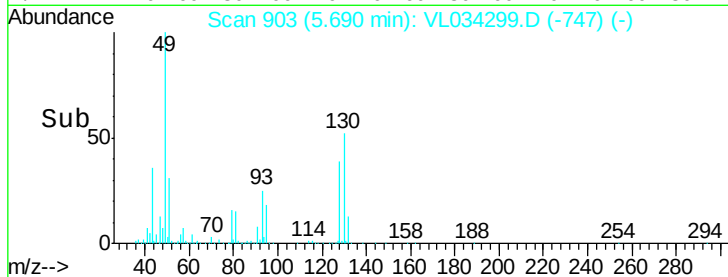
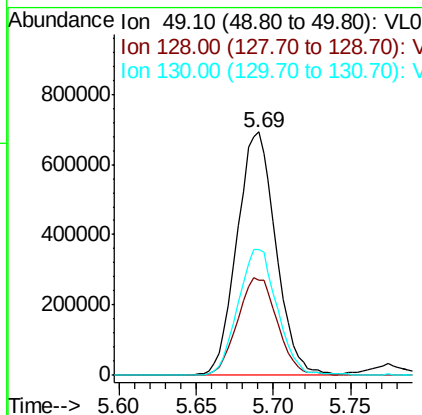
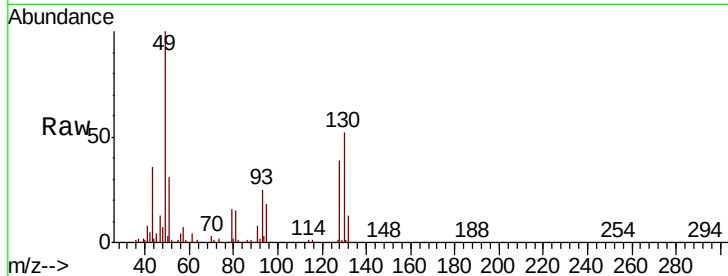
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.00 min
Lab File: VL034299.D
Acq: 16 Oct 2019 13:33

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ClientSampleId :
VSTDIC002

Tot Ion: 49 Resp: 1212884
Ion Ratio Lower Upper
49 100
128 41.3 20.6 61.8
130 52.4 26.2 78.5

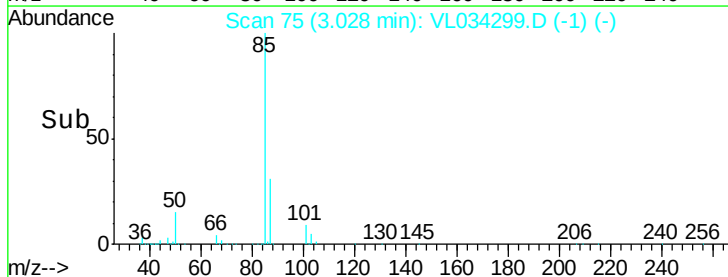
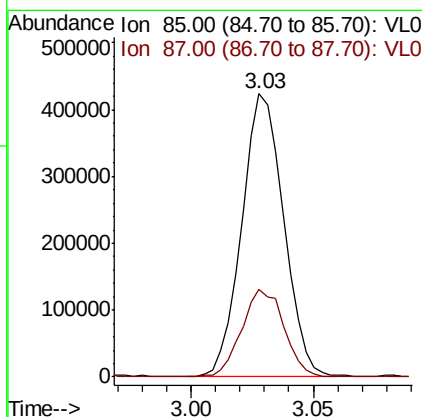
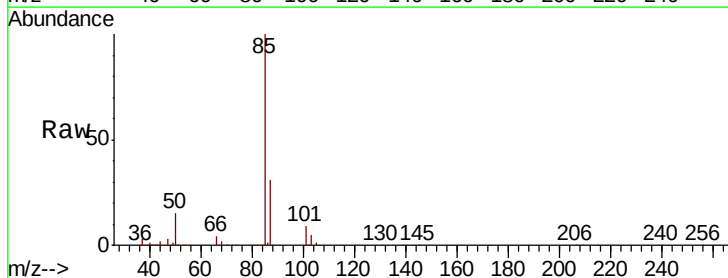
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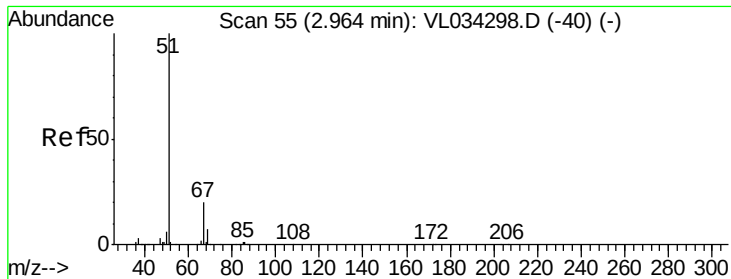
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#2
Dichlorodifluoromethane
Concen: 2.816 ppbv
RT: 3.03 min Scan# 75
Delta R.T. 0.00 min
Lab File: VL034299.D
Acq: 16 Oct 2019 13:33

Tgt Ion: 85 Resp: 504472
Ion Ratio Lower Upper
85 100
87 30.8 27.0 40.6





#3

Chlorodifluoromethane

Concen: 2.065 ppbv

RT: 2.97 min Scan# 56

Delta R.T. 0.00 min

Lab File: VL034299.D

Acq: 16 Oct 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 51 Resp: 293694

Ion Ratio Lower Upper

51 100

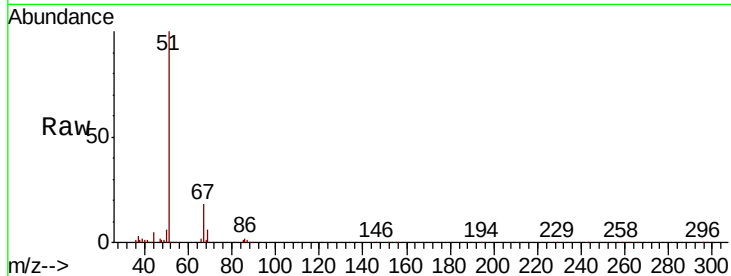
67 18.9 15.8 23.8

Manual Integrations

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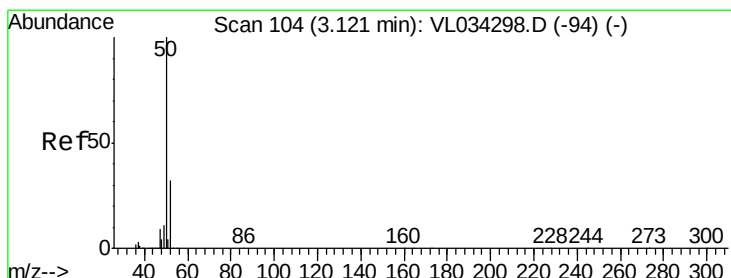
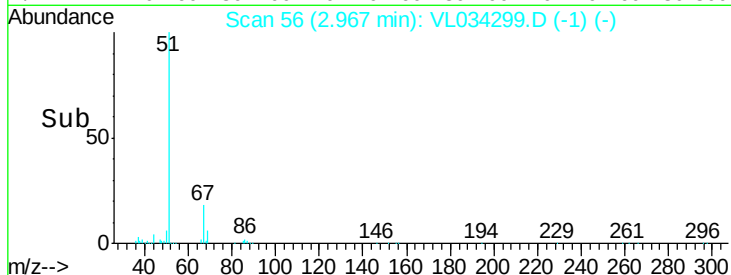
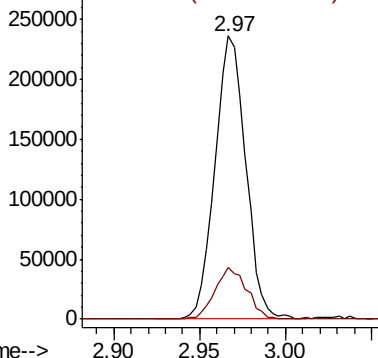
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 2.084 ppbv

RT: 3.12 min Scan# 104

Delta R.T. 0.00 min

Lab File: VL034299.D

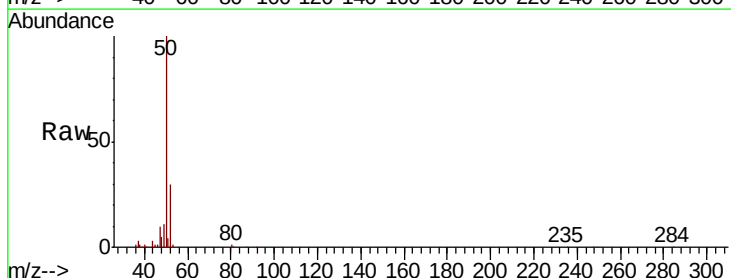
Acq: 16 Oct 2019 13:33

Tgt Ion: 50 Resp: 174163

Ion Ratio Lower Upper

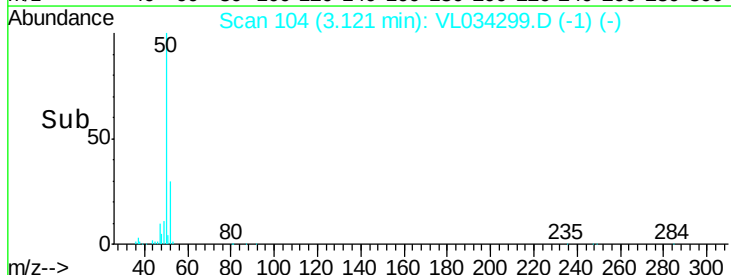
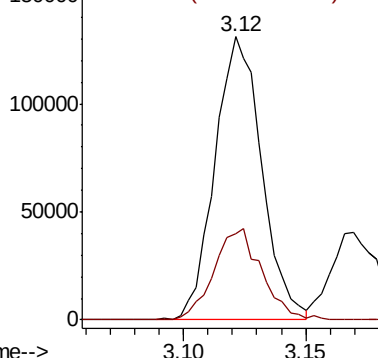
50 100

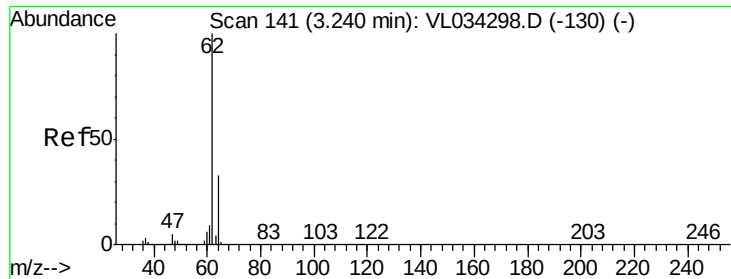
52 30.3 25.4 38.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 2.023 ppbv

RT: 3.24 min Scan# 141

Delta R.T. 0.00 min

Lab File: VL034299.D

Acq: 16 Oct 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 154523

Ion Ratio Lower Upper

62 100

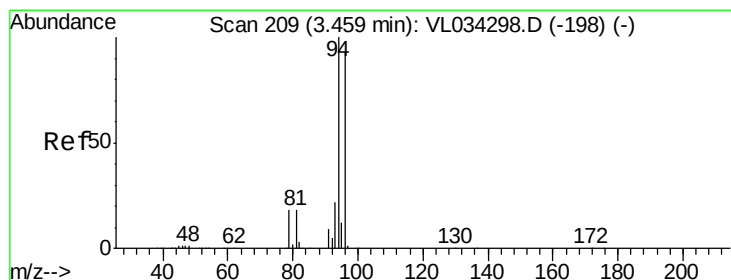
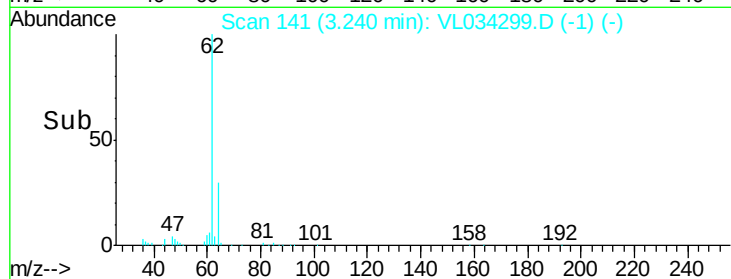
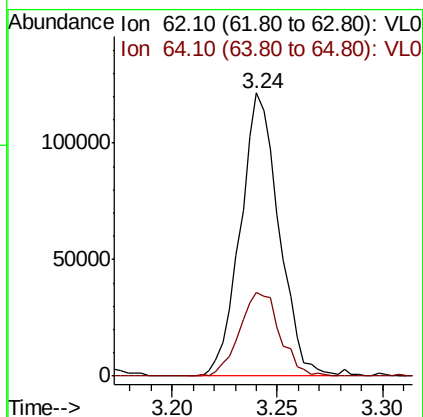
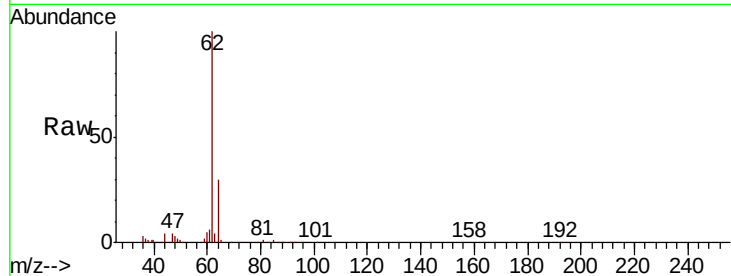
64 29.7 26.0 39.0

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#6

Bromomethane

Concen: 2.161 ppbv

RT: 3.46 min Scan# 210

Delta R.T. 0.00 min

Lab File: VL034299.D

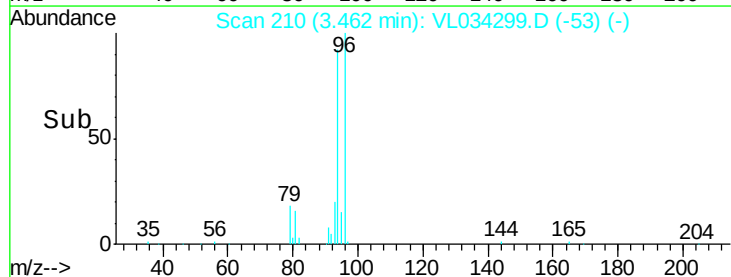
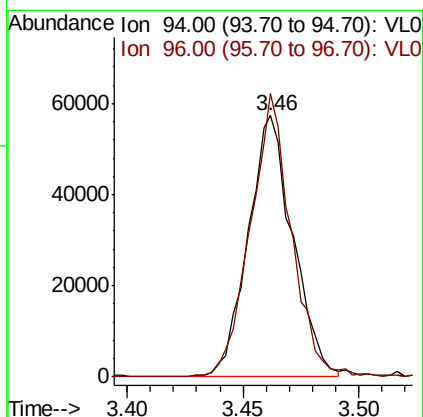
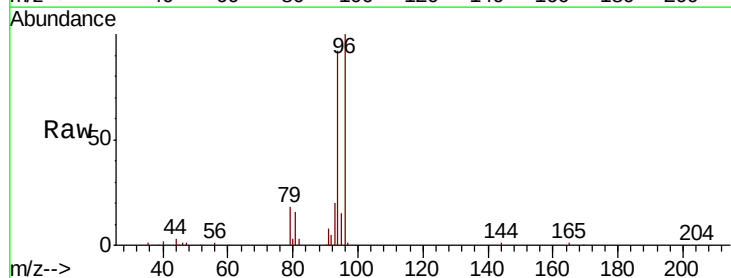
Acq: 16 Oct 2019 13:33

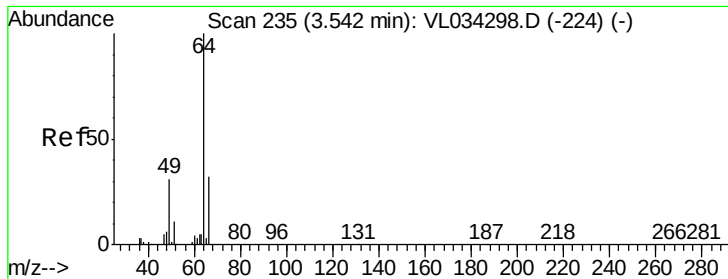
Tgt Ion: 94 Resp: 77010

Ion Ratio Lower Upper

94 100

96 108.4 74.6 112.0





#7

Chloroethane

Concen: 2.191 ppbv

RT: 3.55 min Scan# 237

Delta R.T. 0.01 min

Lab File: VL034299.D

Acq: 16 Oct 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 64 Resp: 58483

Ion Ratio Lower Upper

64 100

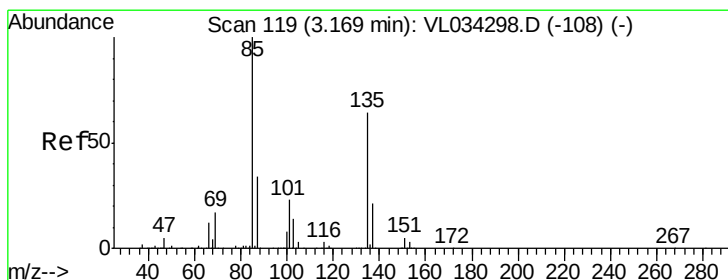
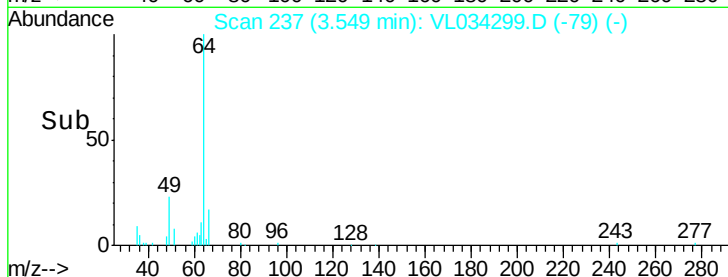
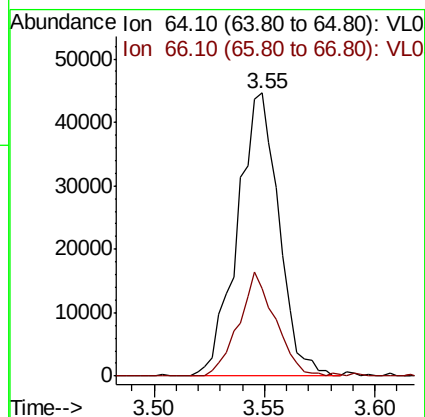
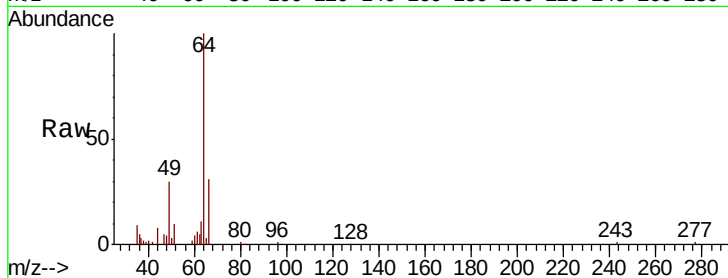
66 31.1 25.4 38.0

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 2.427 ppbv

RT: 3.17 min Scan# 119

Delta R.T. 0.00 min

Lab File: VL034299.D

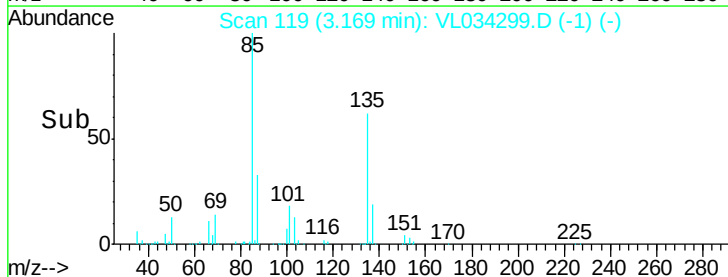
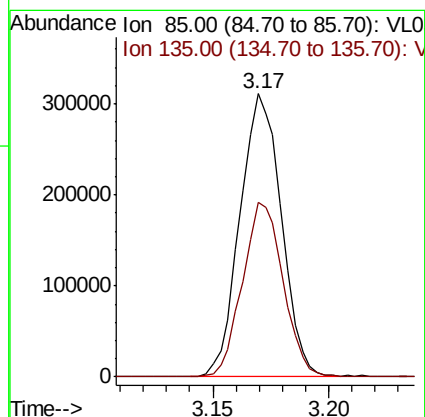
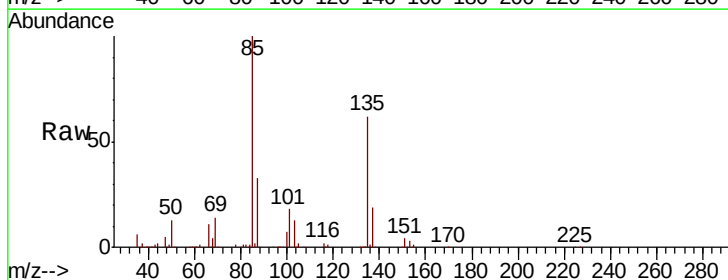
Acq: 16 Oct 2019 13:33

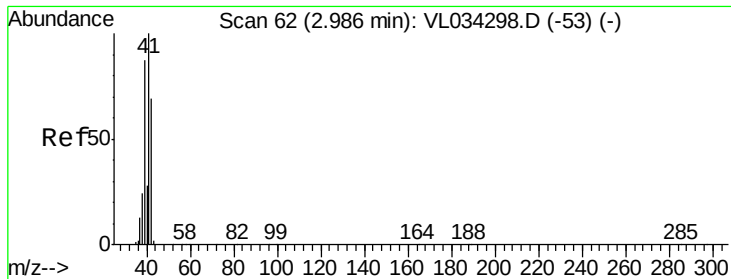
Tgt Ion: 85 Resp: 383685

Ion Ratio Lower Upper

85 100

135 61.0 50.2 75.2





#9

Propene

Concen: 1.896 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.00 min

Lab File: VL034299.D

Acq: 16 Oct 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

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Tot Ion: 41 Resp: 133000

Ion Ratio Lower Upper

41 100

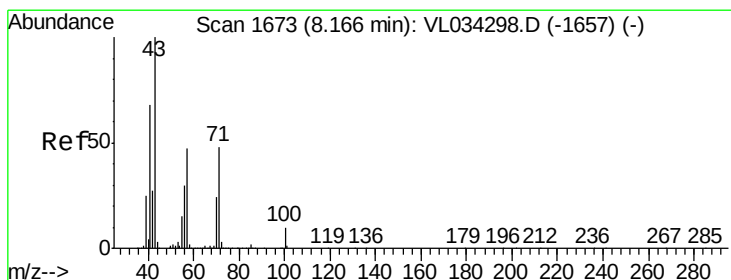
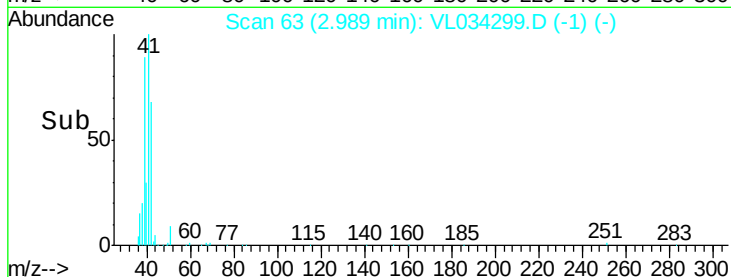
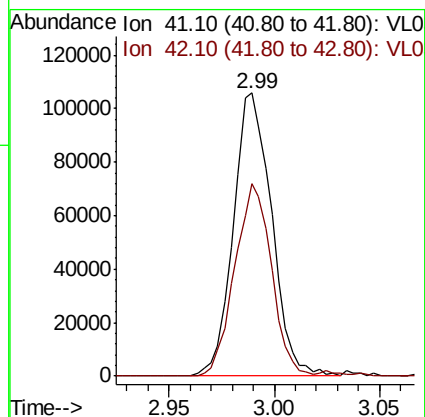
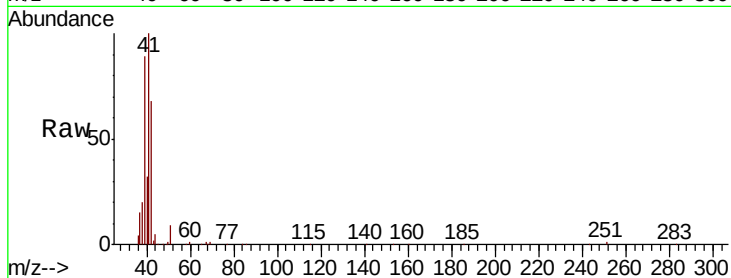
42 66.6 53.9 80.9

Manual Integrations

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#10

Heptane

Concen: 1.835 ppbv

RT: 8.17 min Scan# 1673

Delta R.T. 0.00 min

Lab File: VL034299.D

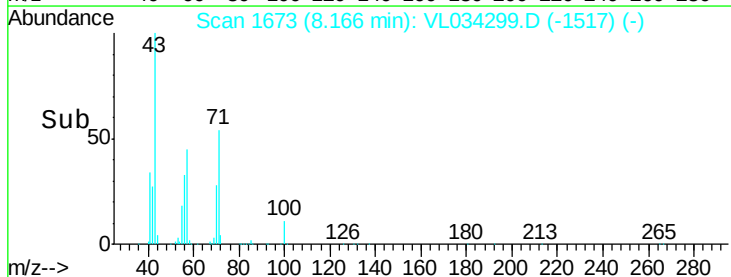
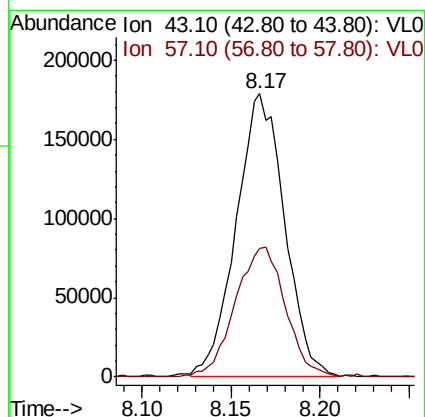
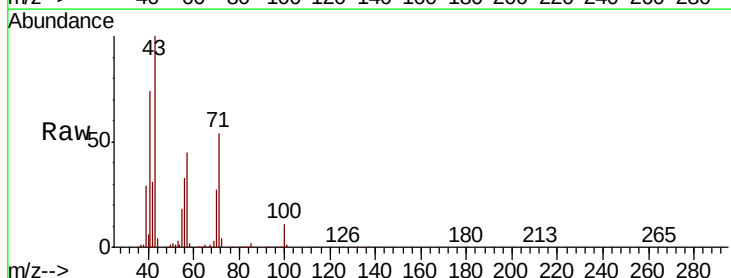
Acq: 16 Oct 2019 13:33

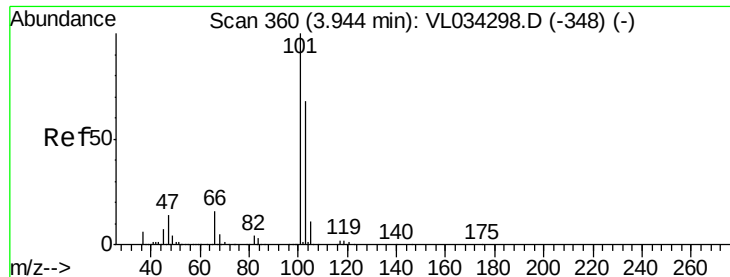
Tgt Ion: 43 Resp: 335457

Ion Ratio Lower Upper

43 100

57 48.2 39.5 59.3





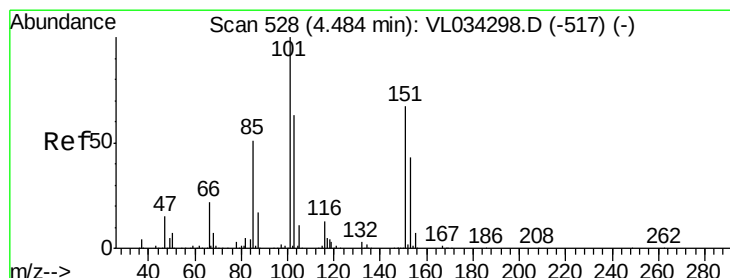
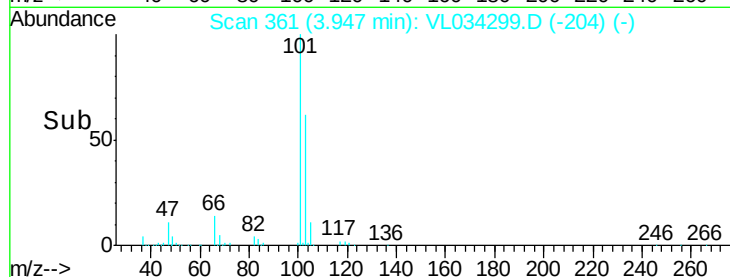
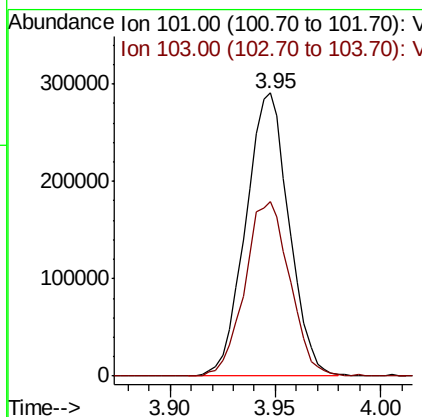
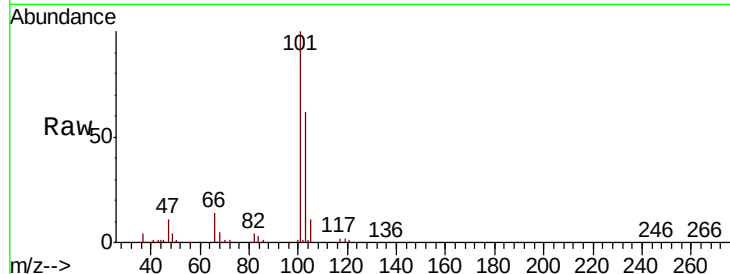
#11
 Trichlorofluoromethane
 Concen: 2.550 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T. 0.00 min
 Lab File: VL034299.D
 Acq: 16 Oct 2019 13:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
101	100		
103	61.6	54.5	81.7

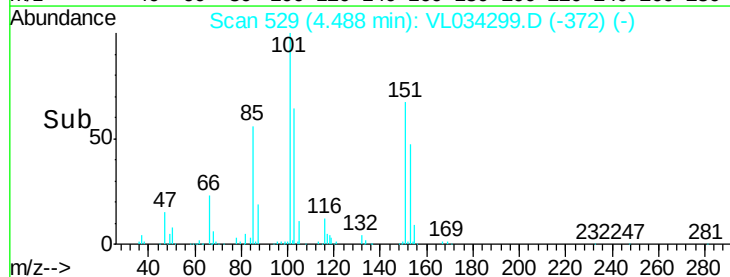
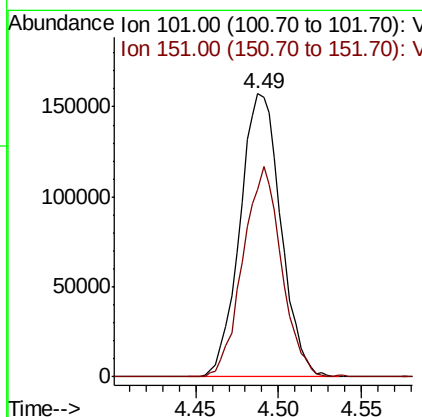
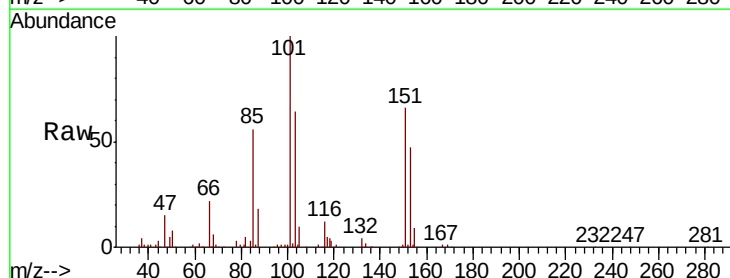
Manual Integrations
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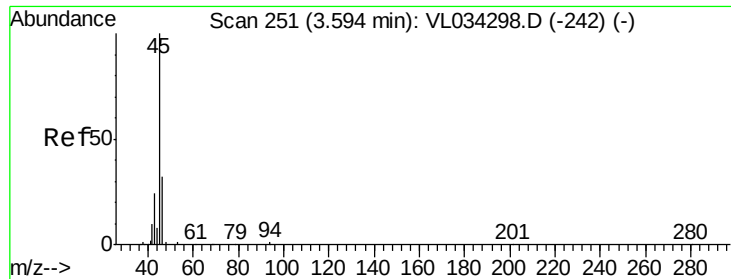
MMDadoda
 10/18/2019 3:03:47 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.523 ppbv
 RT: 4.49 min Scan# 529
 Delta R.T. 0.00 min
 Lab File: VL034299.D
 Acq: 16 Oct 2019 13:33

Tgt Ion	Ratio	Lower	Upper
101	100		
151	70.3	57.4	86.2





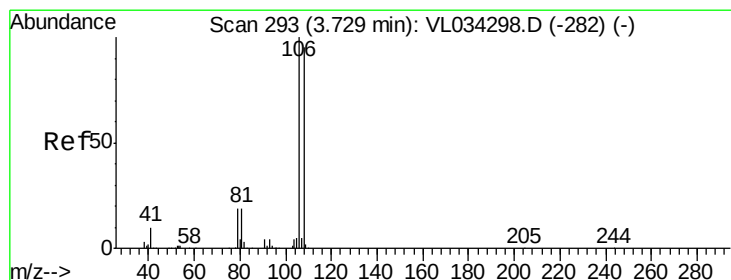
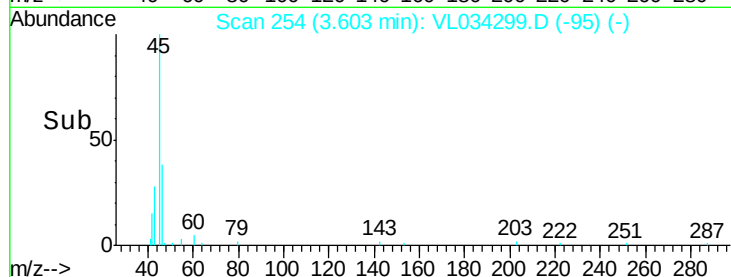
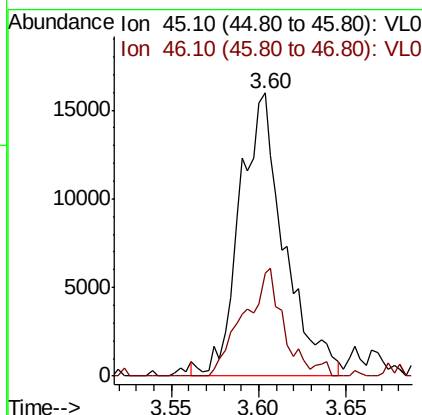
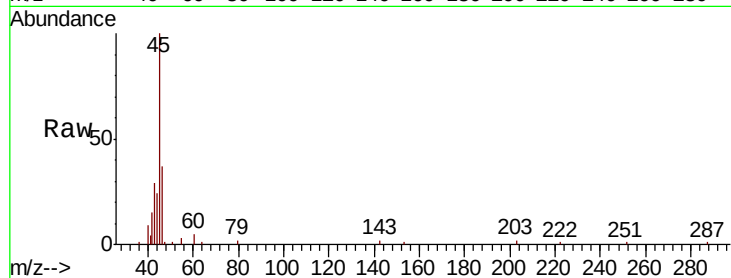
#13
Ethanol
Concen: 1.657 ppbv m
RT: 3.60 min Scan# 254
Delta R.T. 0.01 min
Lab File: VL034299.D
Acq: 16 Oct 2019 13:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
45	100		
46	34.6	15.8	63.2

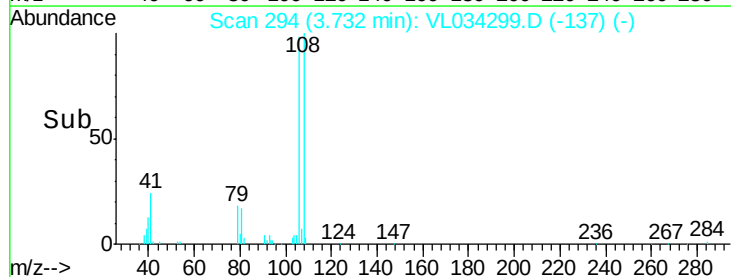
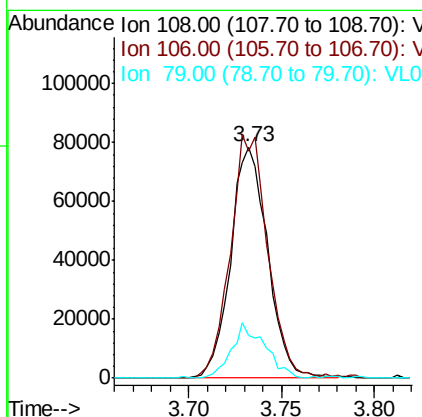
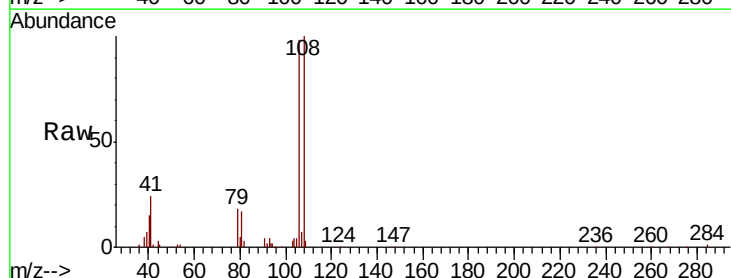
Manual Integrations
APPROVED

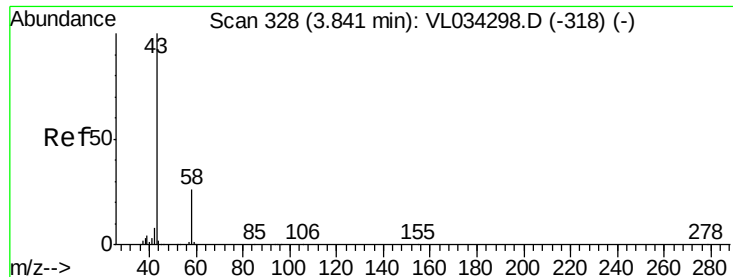
MMDadoda
10/18/2019 3:03:47 PM



#14
Bromoethene
Concen: 2.494 ppbv
RT: 3.73 min Scan# 294
Delta R.T. 0.00 min
Lab File: VL034299.D
Acq: 16 Oct 2019 13:33

Tgt Ion	Ratio	Lower	Upper
108	100		
106	107.1	84.8	127.2
79	22.7	17.0	25.4





#15

Acetone

Concen: 2.265 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.01 min

Lab File: VL034299.D

Acq: 16 Oct 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 43 Resp: 368168

Ion Ratio Lower Upper

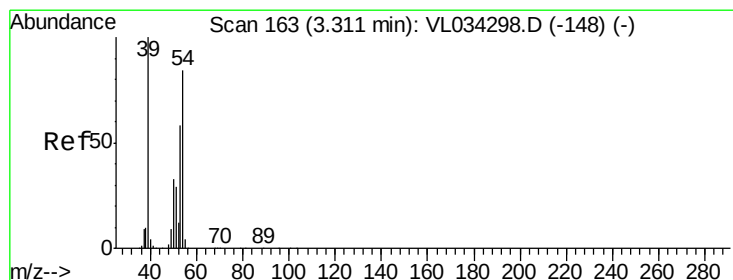
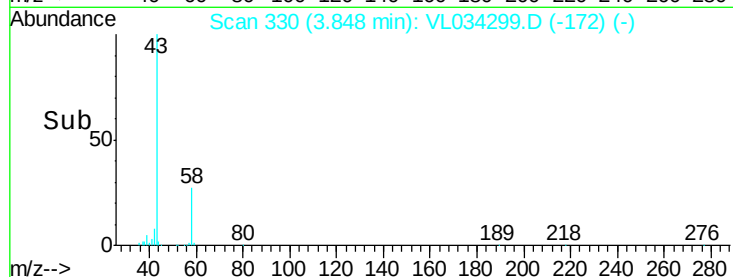
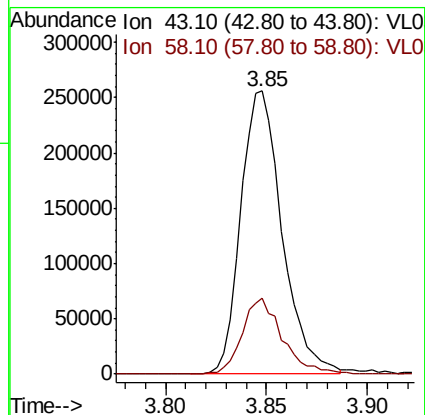
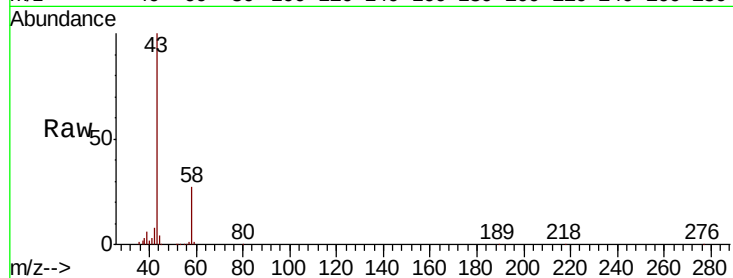
43 100

58 26.2 20.4 30.6

Manual Integrations
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#16

1,3-Butadiene

Concen: 1.996 ppbv

RT: 3.31 min Scan# 164

Delta R.T. 0.00 min

Lab File: VL034299.D

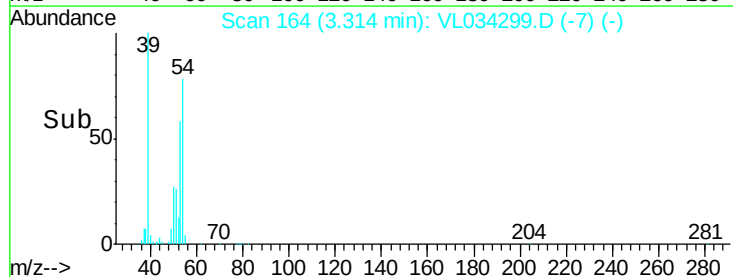
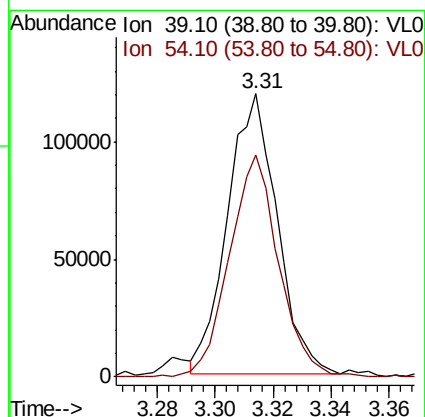
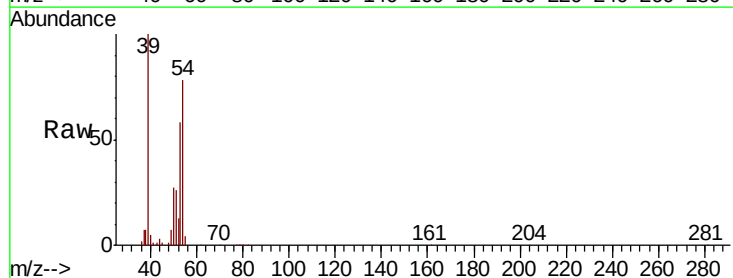
Acq: 16 Oct 2019 13:33

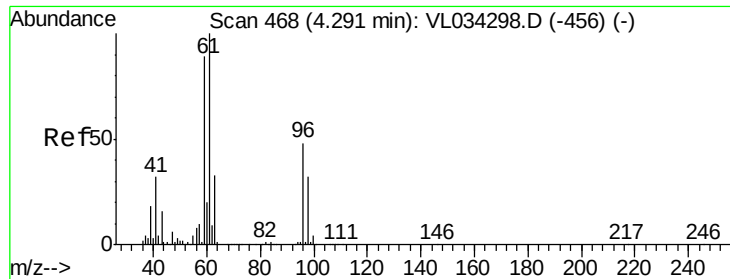
Tgt Ion: 39 Resp: 141624

Ion Ratio Lower Upper

39 100

54 78.7 63.9 95.9





#17

tert-Butyl alcohol

Concen: 1.680 ppbv m

RT: 4.30 min Scan# 470

Delta R.T. 0.01 min

Lab File: VL034299.D

Acq: 16 Oct 2019 13:33

Tot Ion: 59 Resp: 173086

Ion Ratio Lower Upper

59 100

57 10.9 8.8 13.2

Instrument :

MSVOA_L

ClientSampleId :

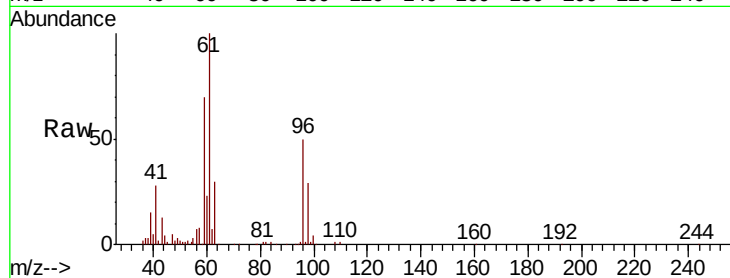
VSTDIC002

Manual Integrations

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Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.30

100000

80000

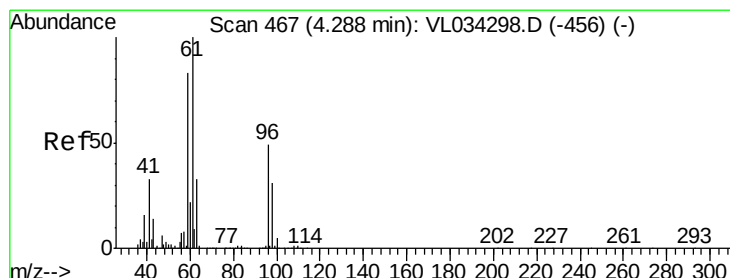
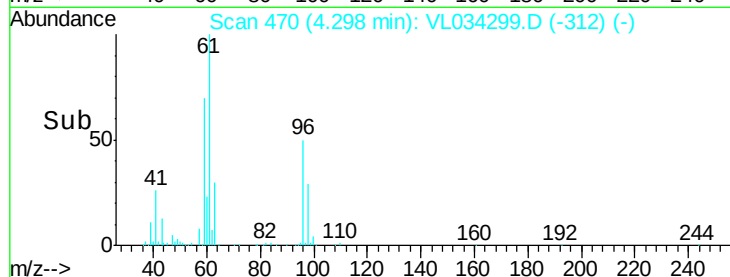
60000

40000

20000

0

Time-->



#18

1,1-Dichloroethene

Concen: 2.556 ppbv m

RT: 4.29 min Scan# 469

Delta R.T. 0.01 min

Lab File: VL034299.D

Acq: 16 Oct 2019 13:33

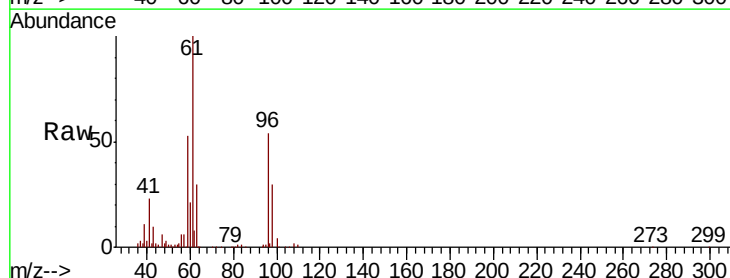
Tgt Ion: 96 Resp: 118984

Ion Ratio Lower Upper

96 100

61 185.5 164.5 246.7

98 56.0 51.7 77.5



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

200000

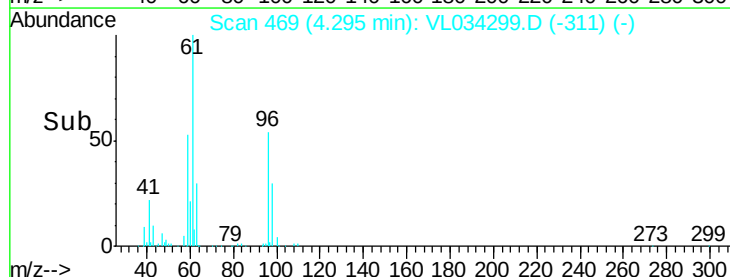
150000

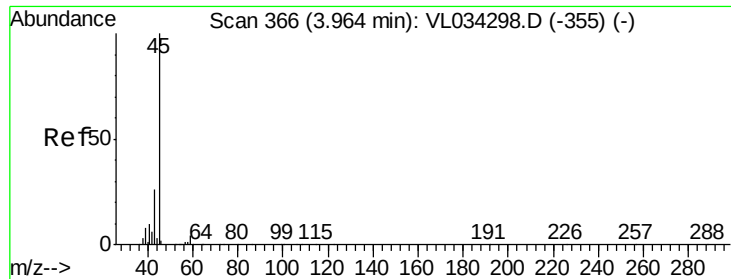
100000

50000

0

Time-->





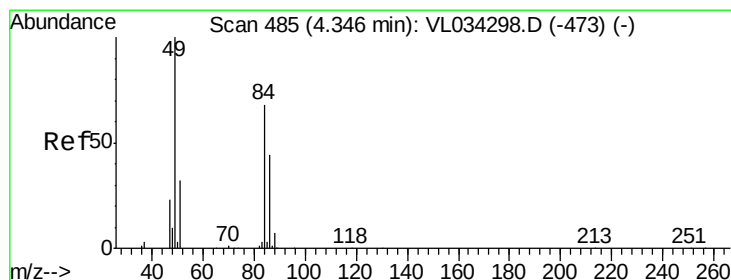
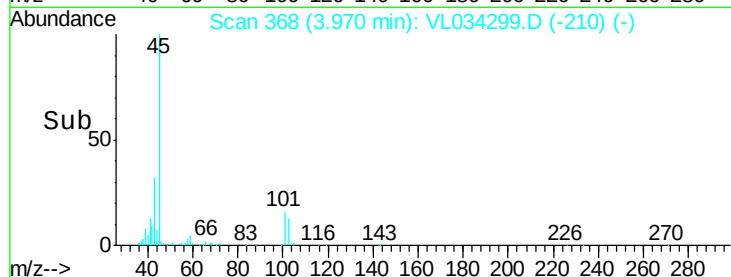
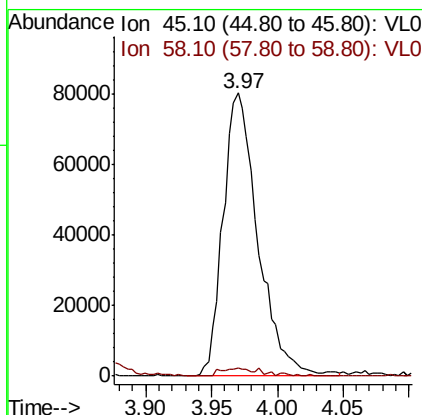
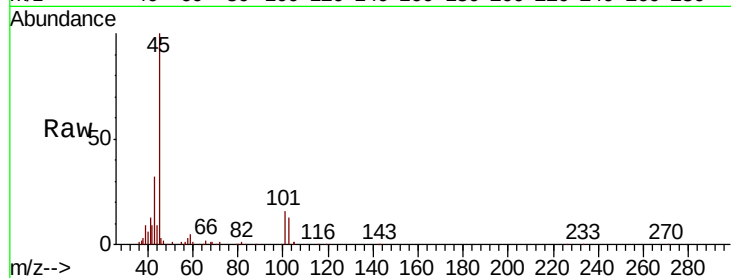
#19
Isopropyl Alcohol
Concen: 1.480 ppbv
RT: 3.97 min Scan# 368
Delta R.T. 0.01 min
Lab File: VL034299.D
Acq: 16 Oct 2019 13:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 45 Resp: 147919
Ion Ratio Lower Upper
45 100
58 3.4 1.4 2.2#

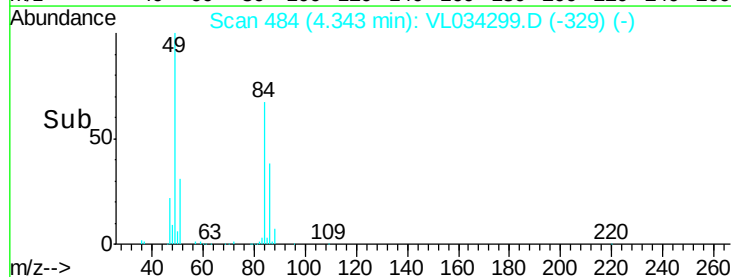
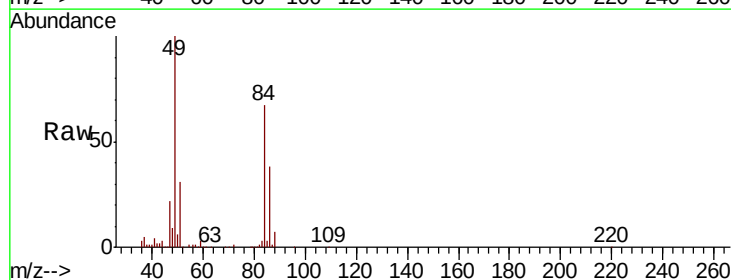
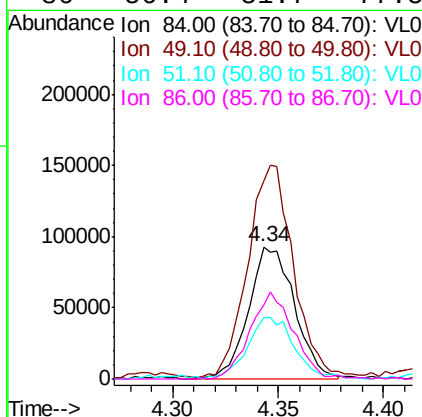
Manual Integrations
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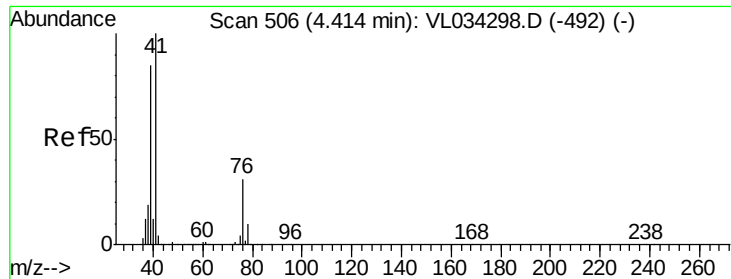
MMDadoda
10/18/2019 3:03:47 PM



#20
Methylene Chloride
Concen: 2.971 ppbv
RT: 4.34 min Scan# 484
Delta R.T. -0.00 min
Lab File: VL034299.D
Acq: 16 Oct 2019 13:33

Tgt Ion: 84 Resp: 139234
Ion Ratio Lower Upper
84 100
49 148.5 118.5 177.7
51 45.5 38.8 58.2
86 56.4 51.7 77.5





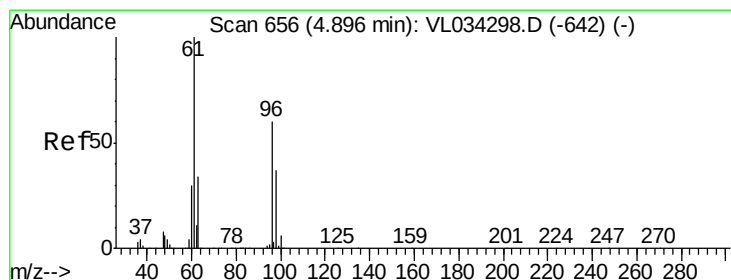
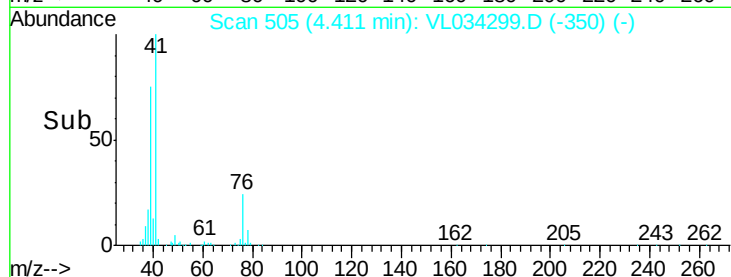
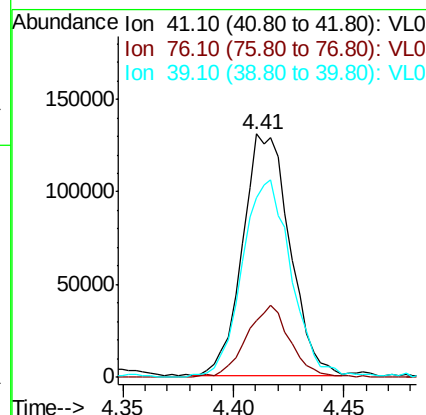
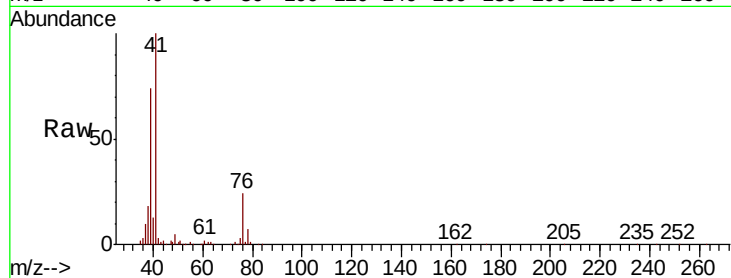
#21
Allvl Chloride
Concen: 2.127 ppbv
RT: 4.41 min Scan# 505
Delta R.T. -0.00 min
Lab File: VL034299.D
Acq: 16 Oct 2019 13:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
41	100		
76	27.6	22.8	34.2
39	84.9	66.0	99.0

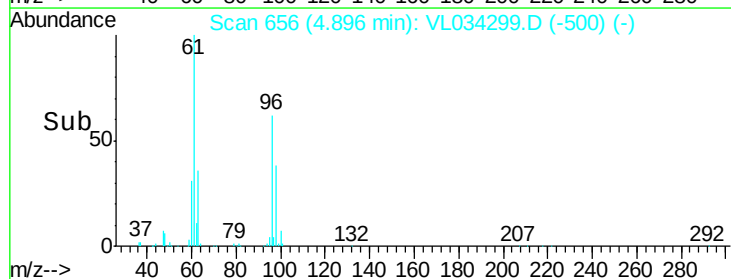
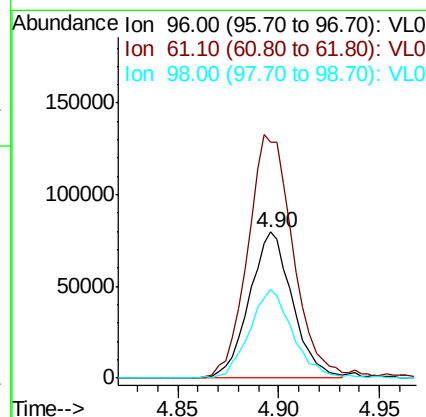
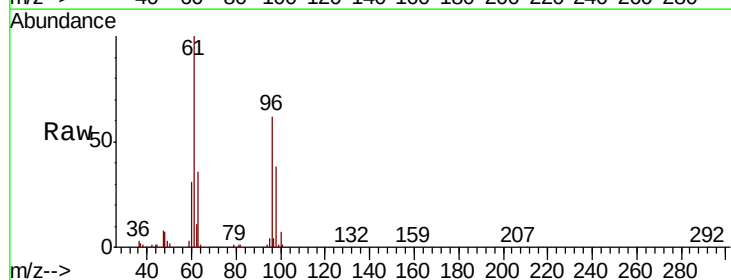
Manual Integrations
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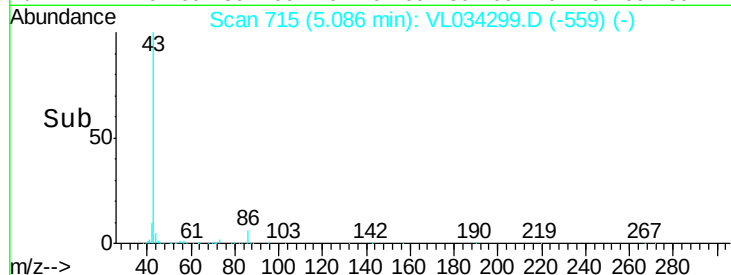
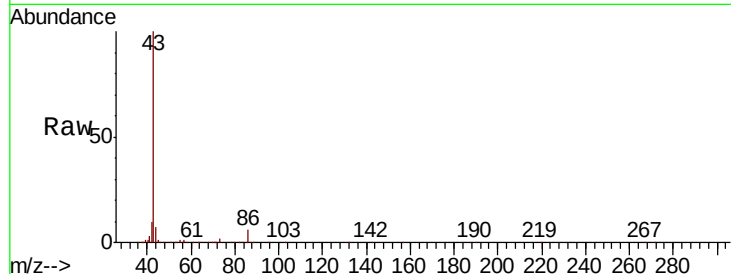
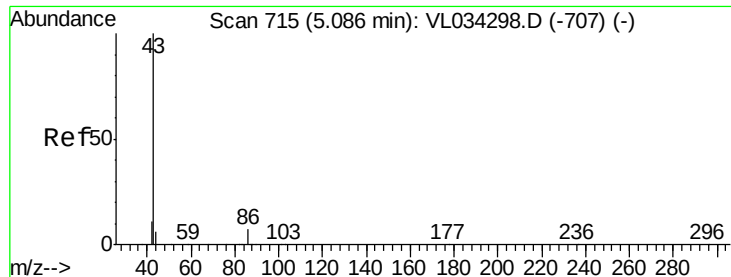
MMDadoda
10/18/2019 3:03:47 PM



#22
trans-1,2-Dichloroethene
Concen: 2.557 ppbv
RT: 4.90 min Scan# 656
Delta R.T. 0.00 min
Lab File: VL034299.D
Acq: 16 Oct 2019 13:33

Tgt Ion	Ratio	Lower	Upper
96	100		
61	161.2	133.8	200.6
98	60.7	49.4	74.0





#23

Vinyl Acetate

Concen: 1.900 ppbv

RT: 5.09 min Scan# 715

Delta R.T. 0.00 min

Lab File: VL034299.D

Acq: 16 Oct 2019 13:33

Tot Ion:	43	Resp:	455053
Ion	Ratio	Lower	Upper
43	100		
86	5.7	5.0	7.4
42	9.8	8.6	13.0
44	5.7	4.8	7.2

Instrument :

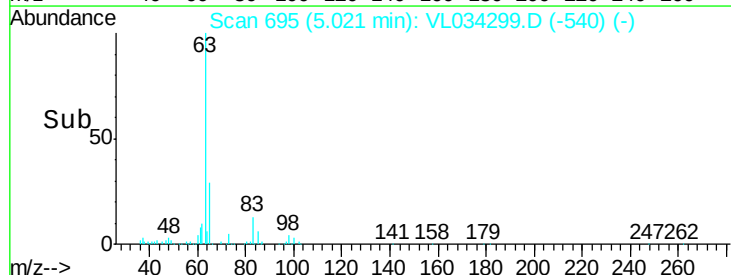
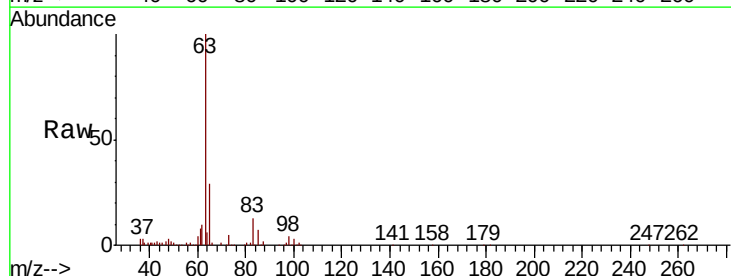
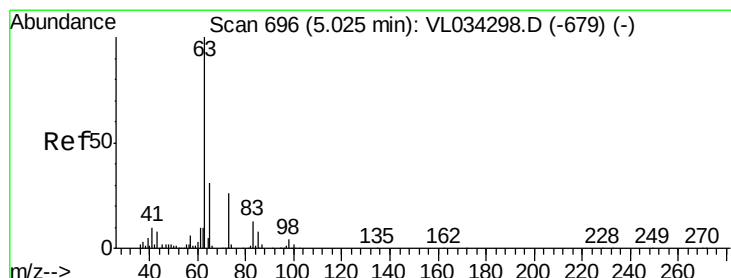
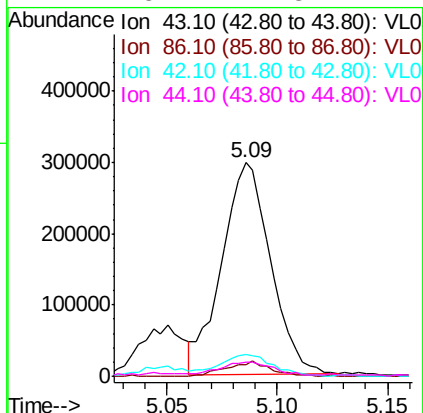
MSVOA_L

ClientSampleId :

VSTDIC002

Manual Integrations
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10/18/2019 3:03:47 PM



#24

1,1-Dichloroethane

Concen: 2.094 ppbv

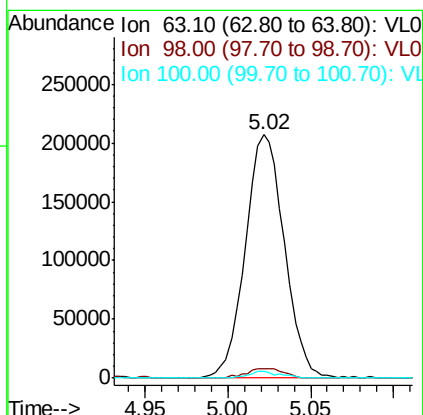
RT: 5.02 min Scan# 695

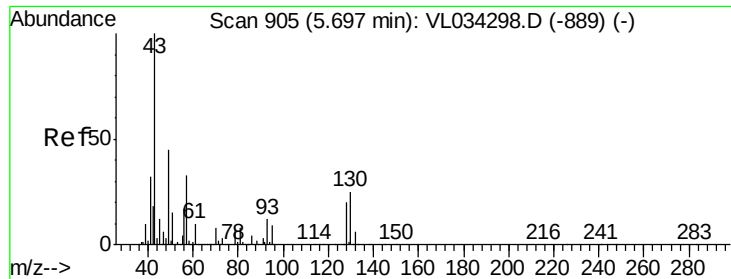
Delta R.T. -0.00 min

Lab File: VL034299.D

Acq: 16 Oct 2019 13:33

Tgt Ion:	63	Resp:	337692
Ion	Ratio	Lower	Upper
63	100		
98	4.1	2.0	6.0
100	2.9	1.1	3.5





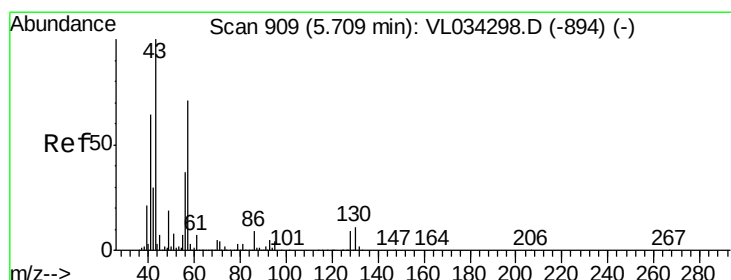
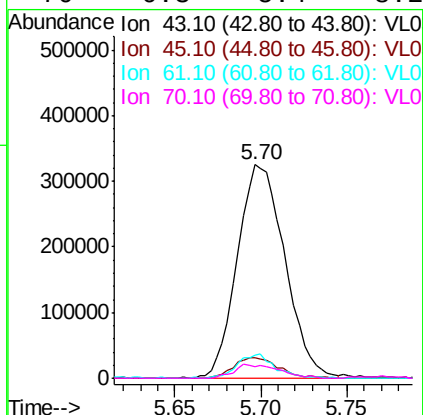
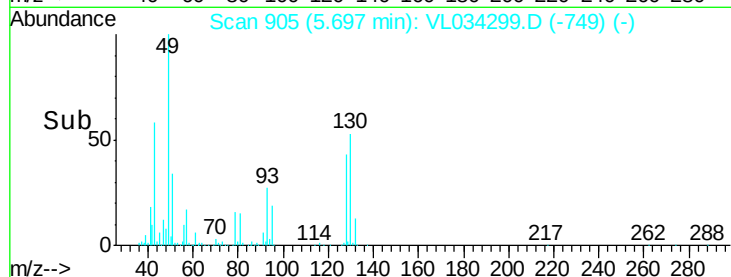
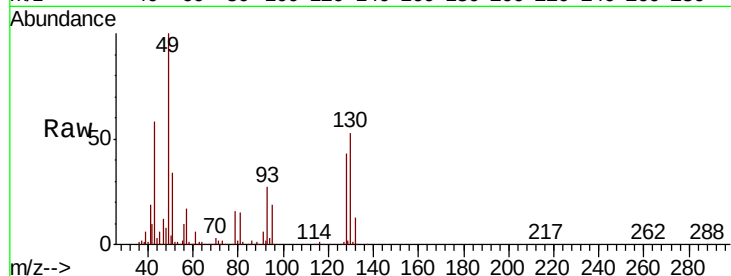
#25
Ethyl Acetate
Concen: 2.021 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.00 min
Lab File: VL034299.D
Acq: 16 Oct 2019 13:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.4	8.3	12.5
61	9.4	7.7	11.5
70	6.3	5.4	8.2

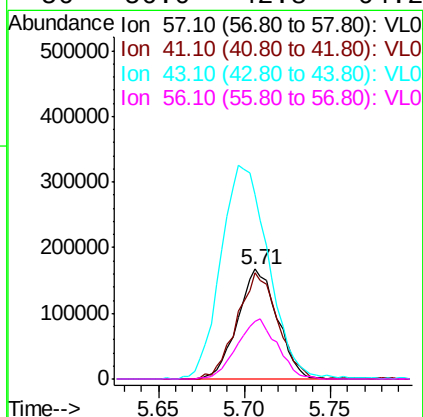
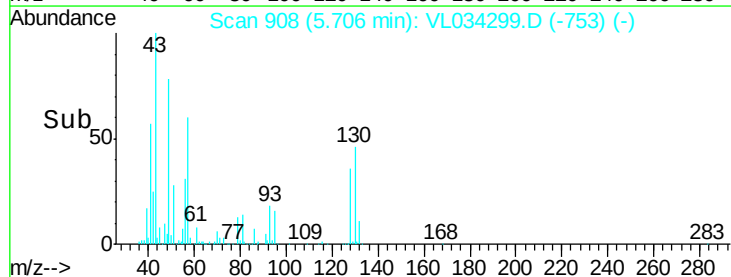
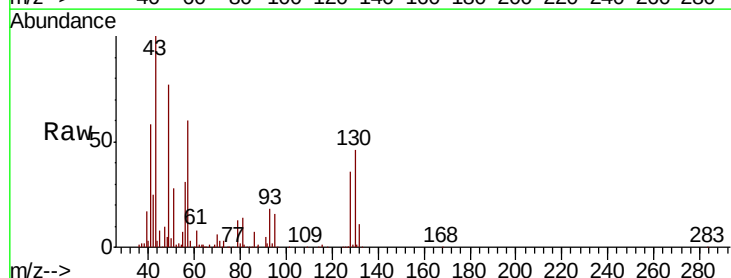
Manual Integrations
APPROVED

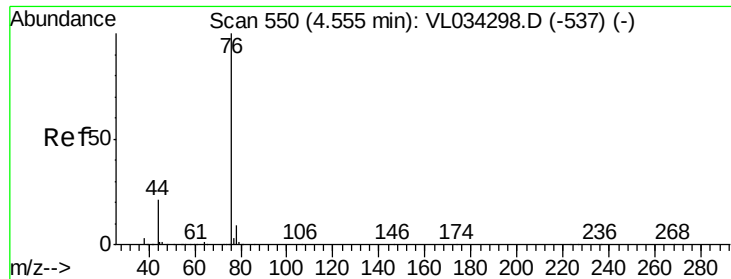
MMDadoda
10/18/2019 3:03:47 PM



#26
Hexane
Concen: 2.074 ppbv
RT: 5.71 min Scan# 908
Delta R.T. -0.00 min
Lab File: VL034299.D
Acq: 16 Oct 2019 13:33

Tgt Ion	Ratio	Lower	Upper
57	100		
41	101.3	76.5	114.7
43	238.4	188.5	282.7
56	56.0	42.8	64.2





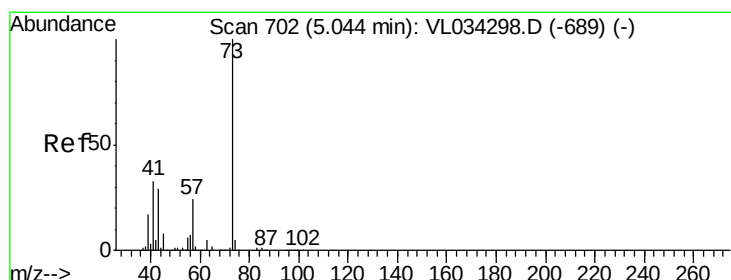
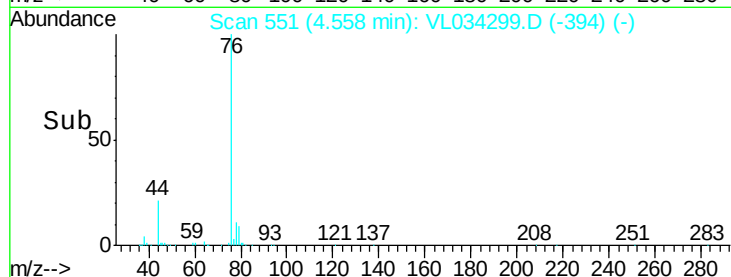
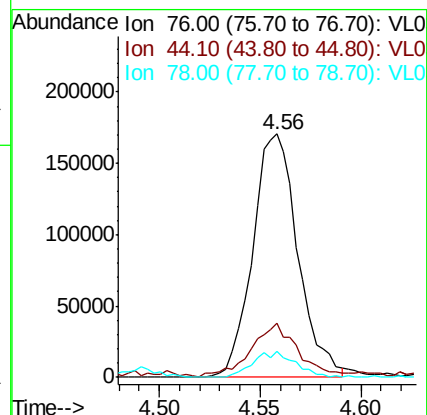
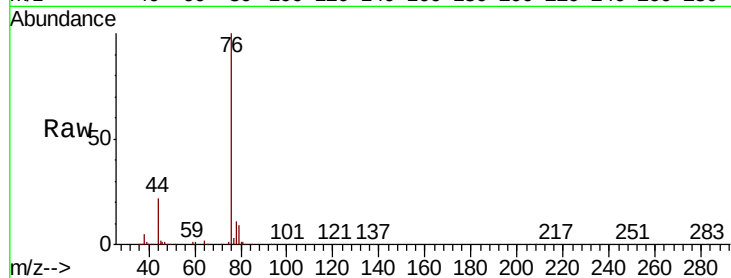
#27
Carbon Disulfide
Concen: 2.262 ppbv
RT: 4.56 min Scan# 551
Delta R.T. 0.00 min
Lab File: VL034299.D
Acq: 16 Oct 2019 13:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
76	100		
44	21.7	17.3	25.9
78	10.6	7.8	11.6

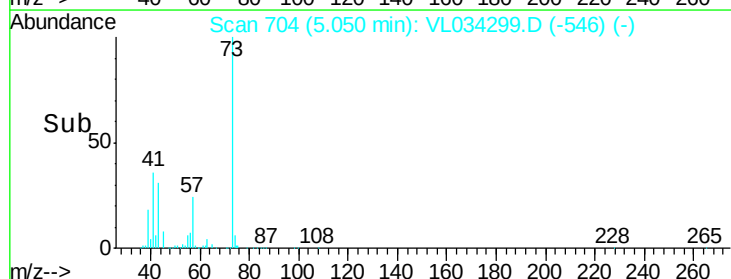
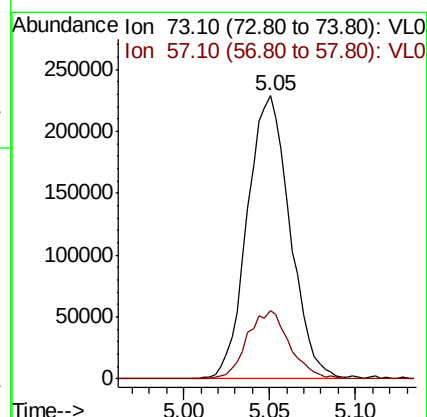
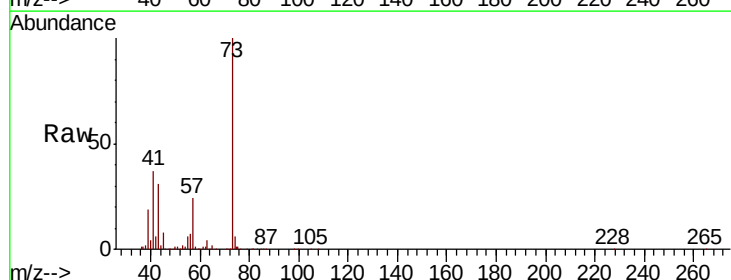
Manual Integrations
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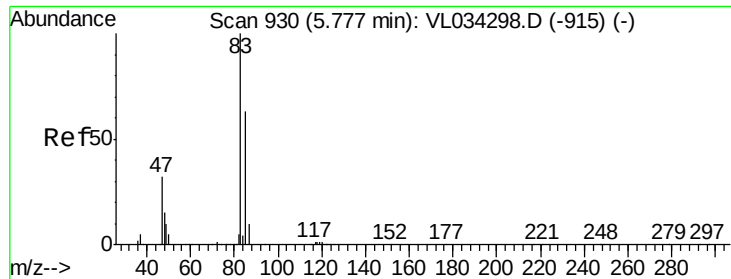
MMDadoda
10/18/2019 3:03:47 PM



#28
Methyl tert-Butyl Ether
Concen: 2.080 ppbv
RT: 5.05 min Scan# 704
Delta R.T. 0.01 min
Lab File: VL034299.D
Acq: 16 Oct 2019 13:33

Tgt Ion	Ratio	Lower	Upper
73	100		
57	23.9	19.2	28.8





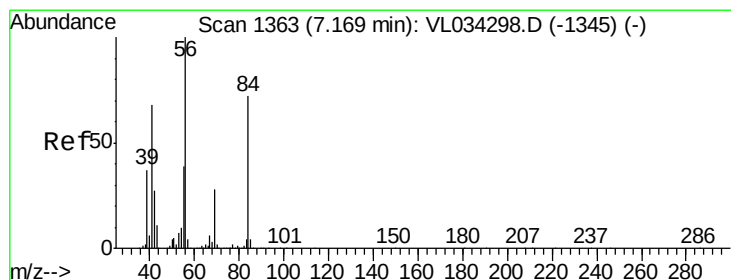
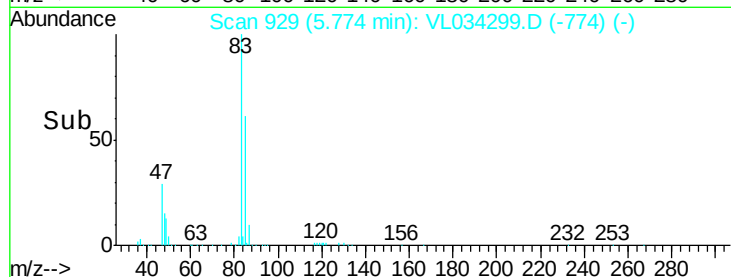
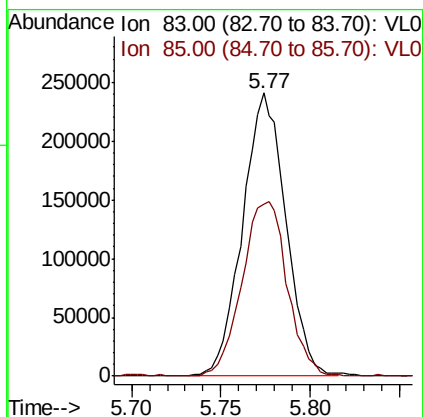
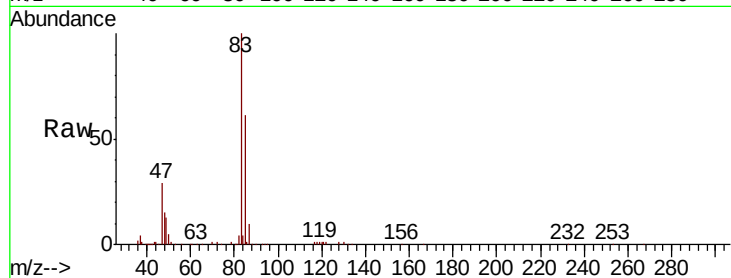
#29
Chloroform
Concen: 2.235 ppbv
RT: 5.77 min Scan# 929
Delta R.T. -0.00 min
Lab File: VL034299.D
Acq: 16 Oct 2019 13:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	83	Resp	408396
Ion Ratio	Lower	Upper	
83	100		
85	60.6	50.5	75.7

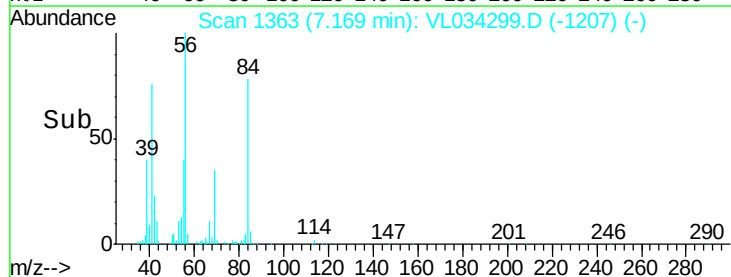
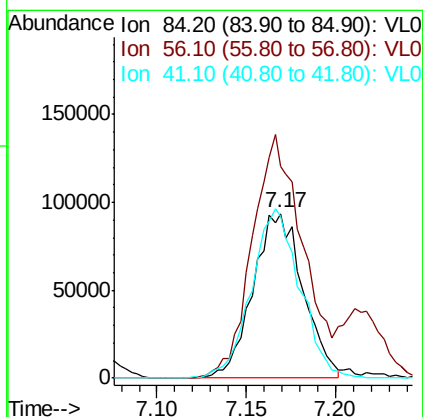
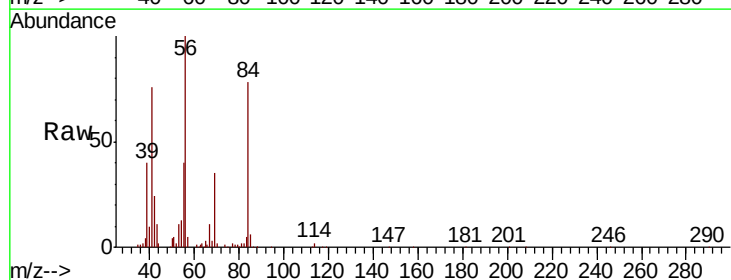
Manual Integrations
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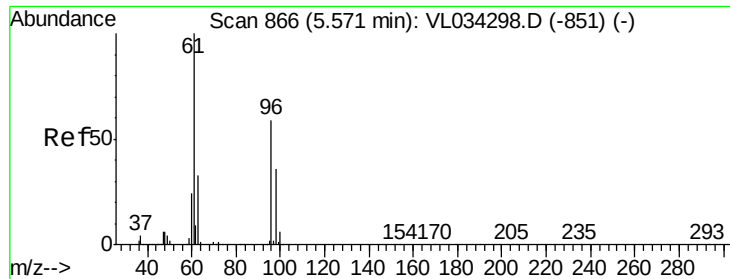
MMDadoda
10/18/2019 3:03:47 PM



#30
Cyclohexane
Concen: 1.992 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. 0.00 min
Lab File: VL034299.D
Acq: 16 Oct 2019 13:33

Tgt Ion	84	Resp	183877
Ion Ratio	Lower	Upper	
84	100		
56	148.6	119.4	179.0
41	100.0	78.7	118.1





#31

cis-1,2-Dichloroethene

Concen: 2.020 ppbv

RT: 5.56 min Scan# 864

Delta R.T. -0.01 min

Lab File: VL034299.D

Acq: 16 Oct 2019 13:33

Instrument :

MSVOA_L

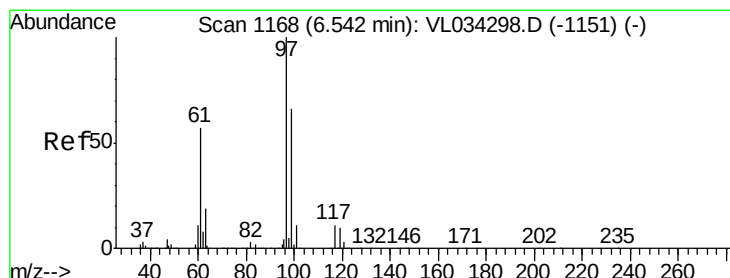
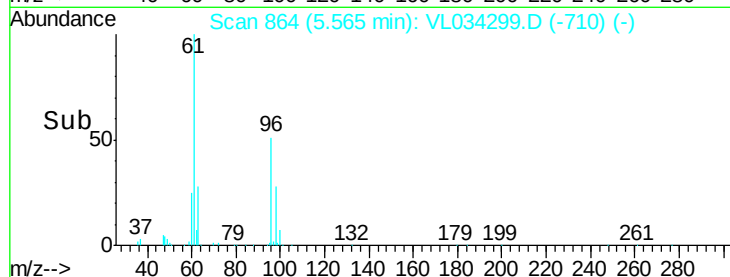
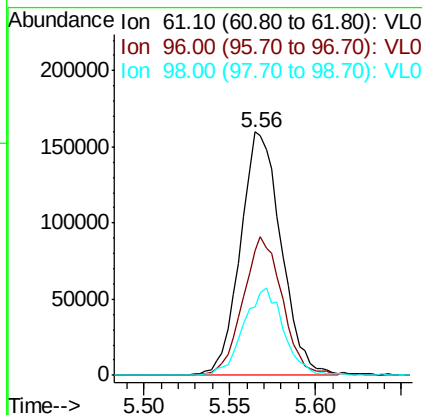
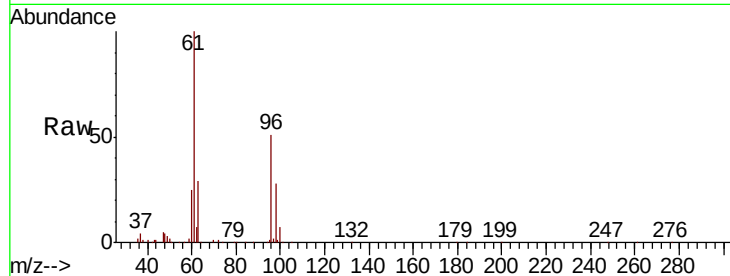
ClientSampleId :

VSTDIC002

Tot Ion	61	Resp	263344
Ion	Ratio	Lower	Upper
61	100		
96	51.0	47.5	71.3
98	28.3	28.8	43.2#

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#32

1,1,1-Trichloroethane

Concen: 2.166 ppbv

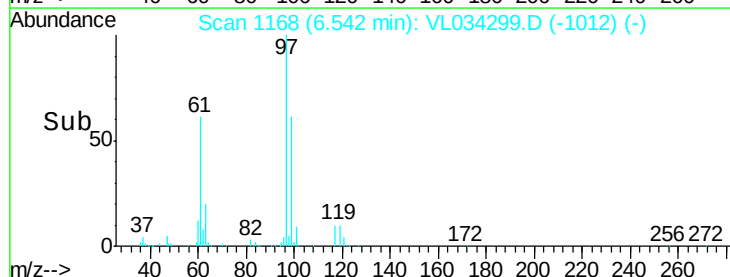
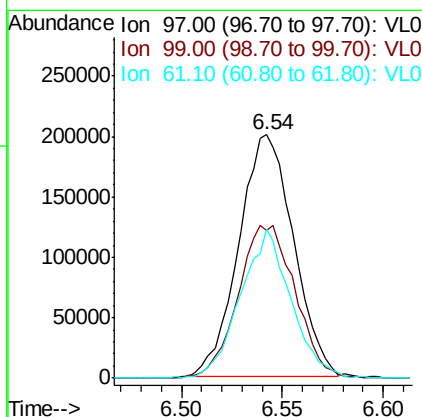
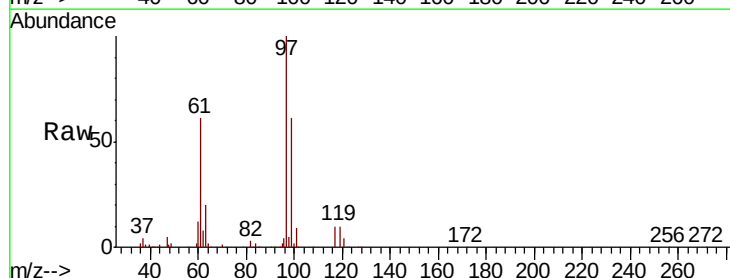
RT: 6.54 min Scan# 1168

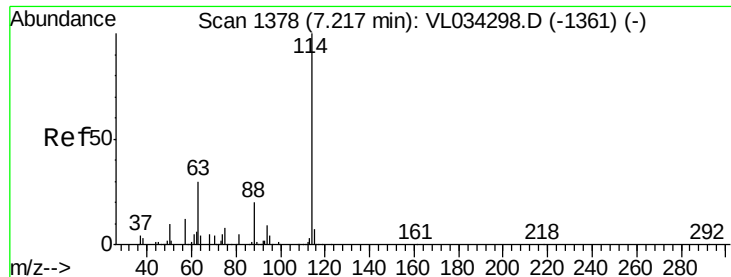
Delta R.T. 0.00 min

Lab File: VL034299.D

Acq: 16 Oct 2019 13:33

Tgt Ion	97	Resp	381720
Ion	Ratio	Lower	Upper
97	100		
99	65.6	52.6	78.8
61	56.5	44.5	66.7





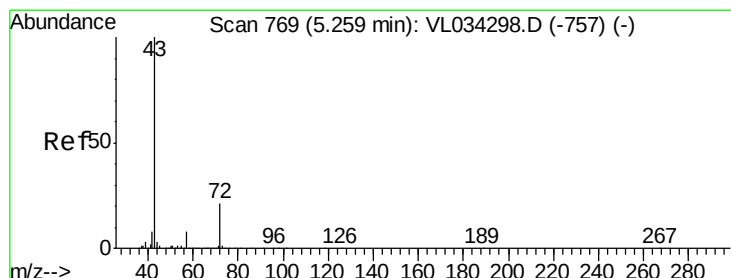
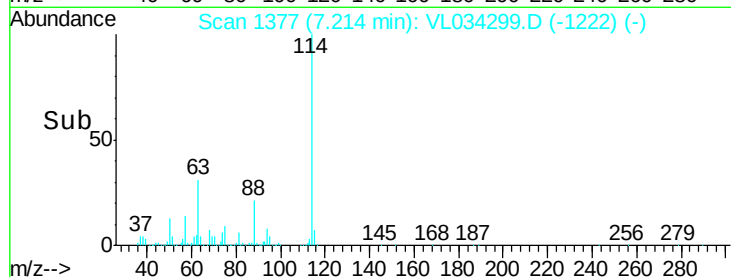
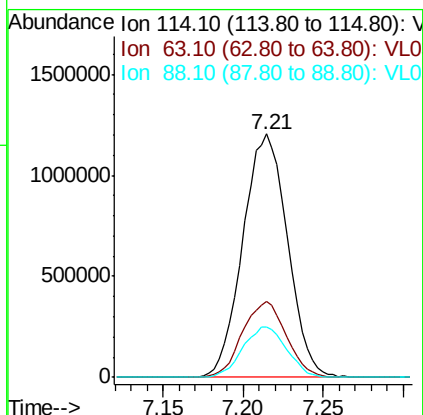
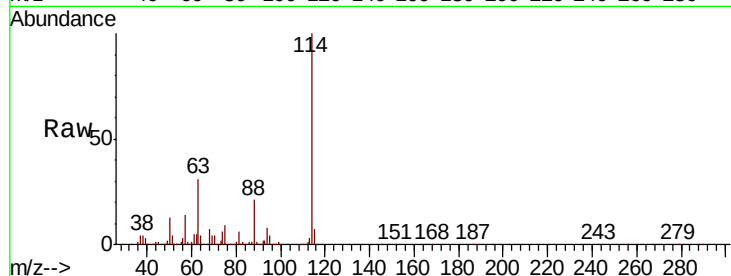
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1377
 Delta R.T. -0.00 min
 Lab File: VL034299.D
 Acq: 16 Oct 2019 13:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
114	100		
63	30.8	25.2	37.8
88	20.4	16.0	24.0

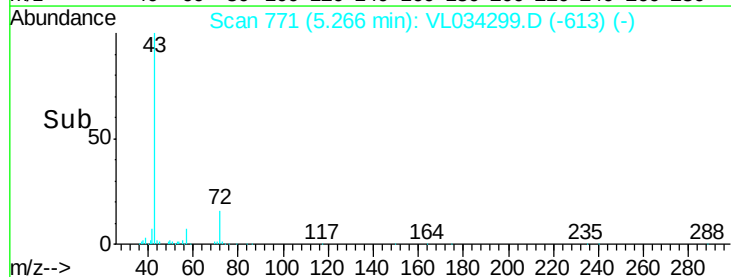
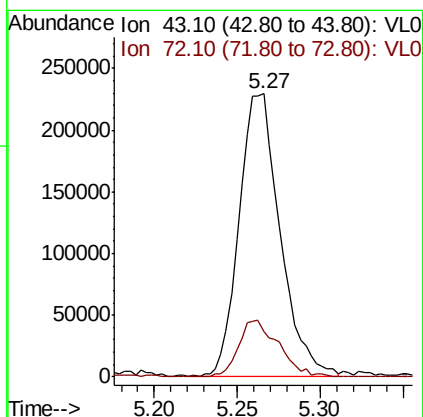
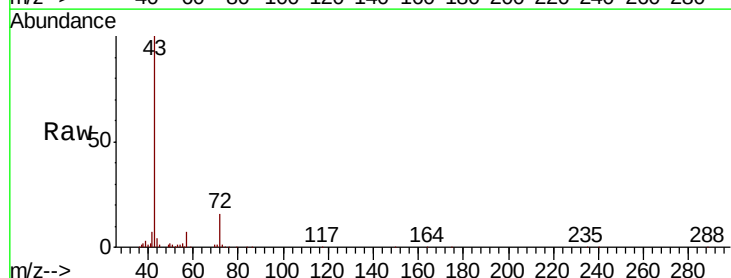
Manual Integrations
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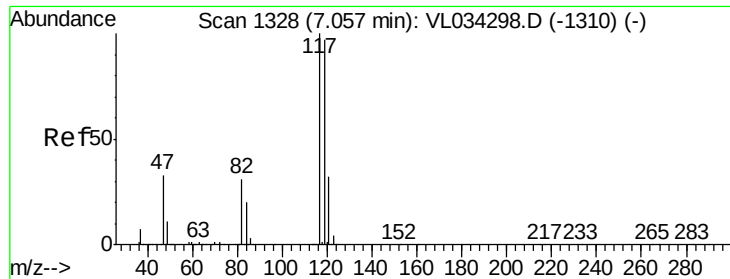
MMDadoda
 10/18/2019 3:03:47 PM



#34
 2-Butanone
 Concen: 1.670 ppbv
 RT: 5.27 min Scan# 771
 Delta R.T. 0.01 min
 Lab File: VL034299.D
 Acq: 16 Oct 2019 13:33

Tgt Ion	Ratio	Lower	Upper
43	100		
72	19.8	16.3	24.5





#35

Carbon Tetrachloride

Concen: 2.118 ppbv

RT: 7.05 min Scan# 1327

Delta R.T. -0.00 min

Lab File: VL034299.D

Acq: 16 Oct 2019 13:33

Instrument :

MSVOA_L

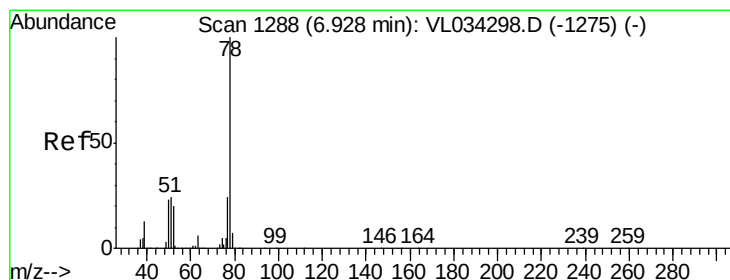
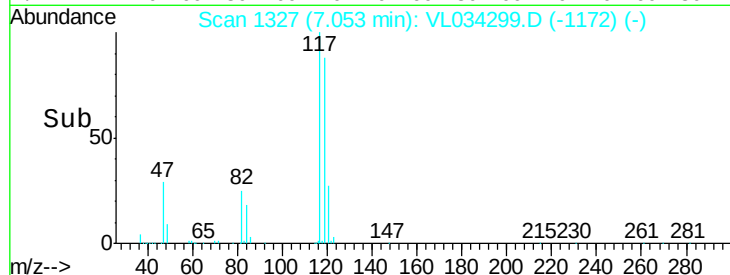
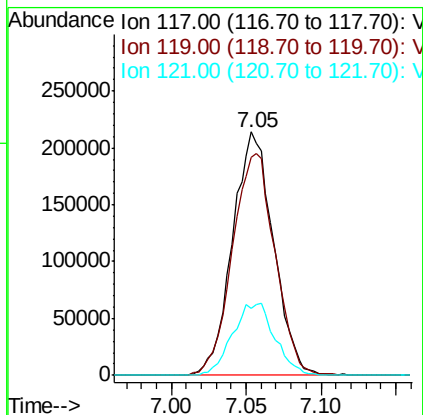
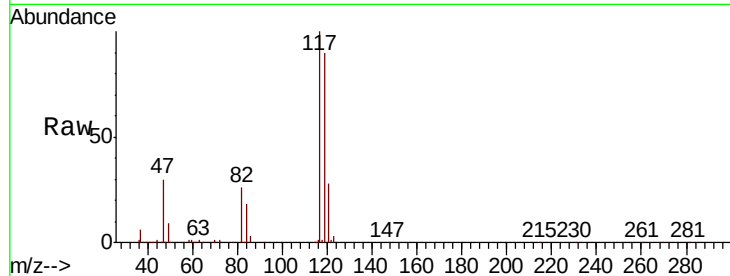
ClientSampleId :

VSTDIC002

Tot Ion:	117	Resp:	406912
Ion Ratio	Lower	Upper	
117	100		
119	89.8	77.3	115.9
121	27.7	25.5	38.3

Manual Integrations
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#36

Benzene

Concen: 1.848 ppbv

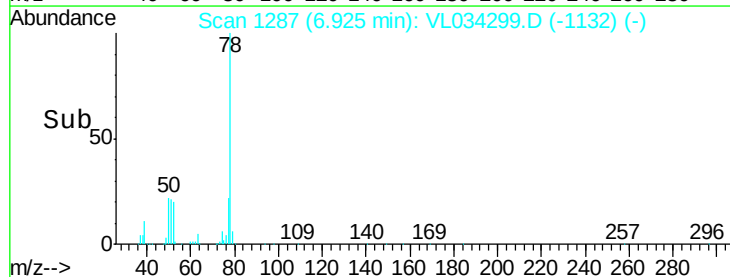
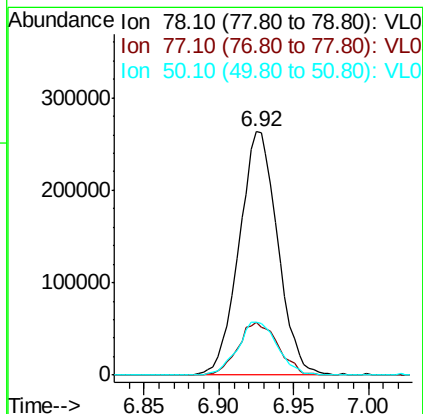
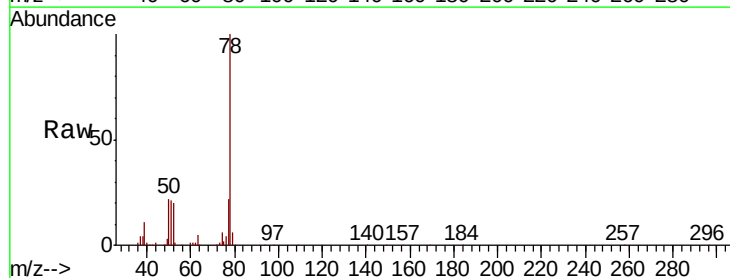
RT: 6.92 min Scan# 1287

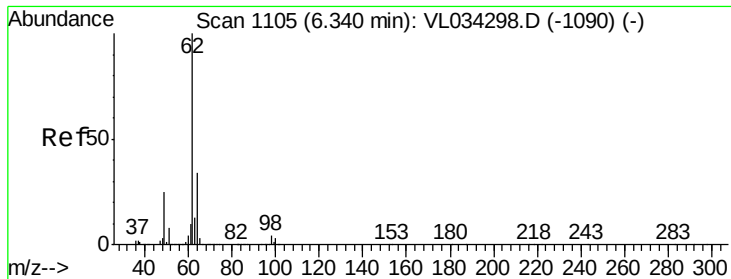
Delta R.T. -0.00 min

Lab File: VL034299.D

Acq: 16 Oct 2019 13:33

Tgt Ion:	78	Resp:	471896
Ion Ratio	Lower	Upper	
78	100		
77	21.9	19.0	28.4
50	21.8	18.6	27.8





#37

1,2-Dichloroethane

Concen: 1.893 ppbv

RT: 6.33 min Scan# 1103

Delta R.T. -0.01 min

Lab File: VL034299.D

Acq: 16 Oct 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 343892

Ion Ratio Lower Upper

62 100

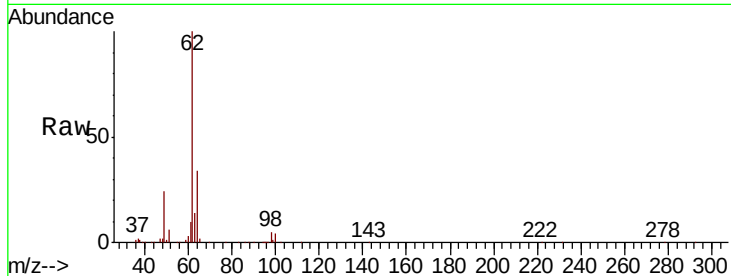
98 4.7 3.8 5.6

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.33

200000

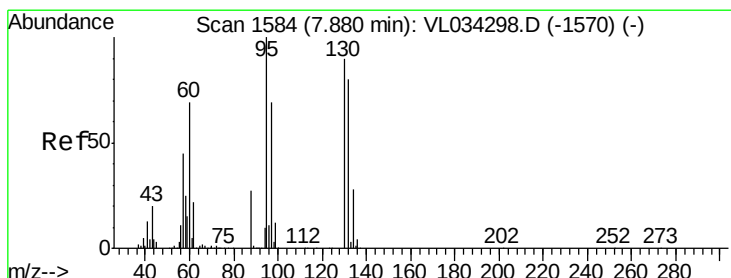
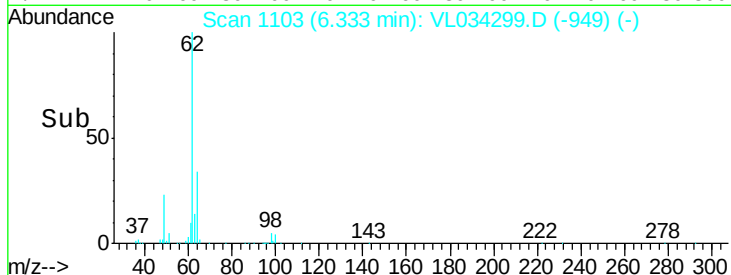
150000

100000

50000

0

Time--> 6.25 6.30 6.35 6.40



#38

Trichloroethene

Concen: 2.027 ppbv

RT: 7.88 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VL034299.D

Acq: 16 Oct 2019 13:33

Tgt Ion: 130 Resp: 184990

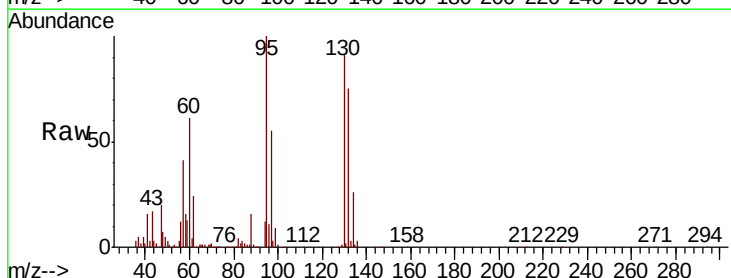
Ion Ratio Lower Upper

130 100

95 109.9 88.6 132.8

132 85.7 71.2 106.8

97 60.9 61.0 91.4#



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

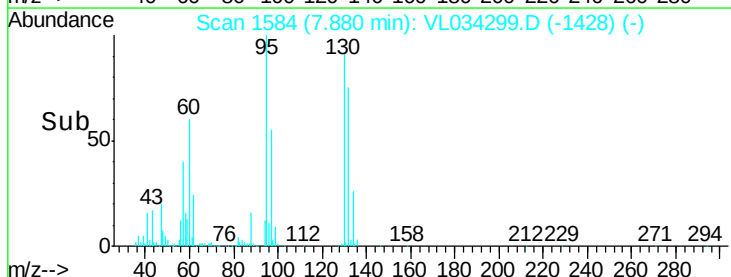
150000

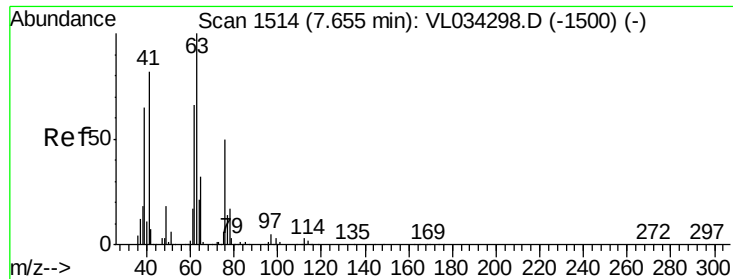
100000

50000

0

Time--> 7.80 7.85 7.90





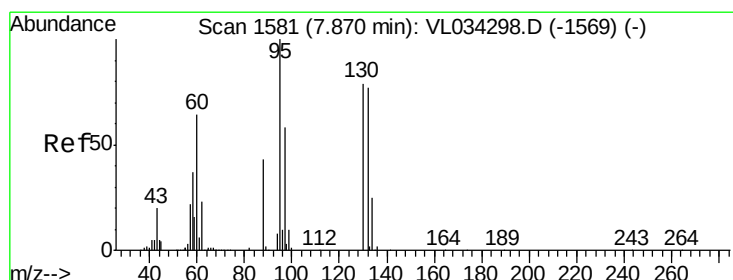
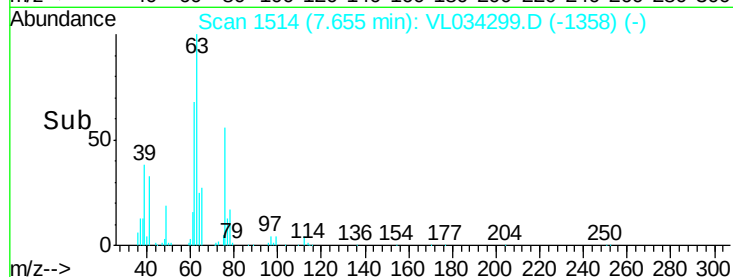
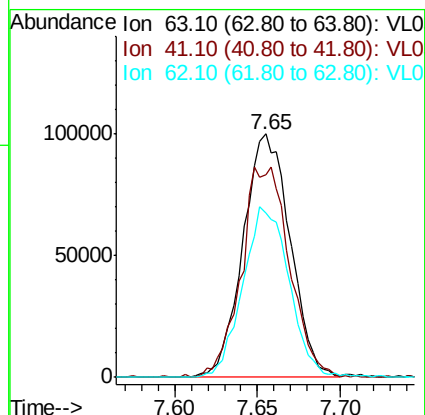
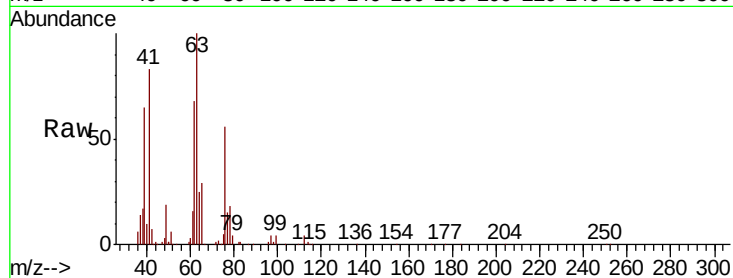
#39
 1,2-Dichloropropane
 Concen: 1.714 ppbv
 RT: 7.65 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VL034299.D
 Acq: 16 Oct 2019 13:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
63	100		
41	83.0	65.6	98.4
62	67.5	53.0	79.6

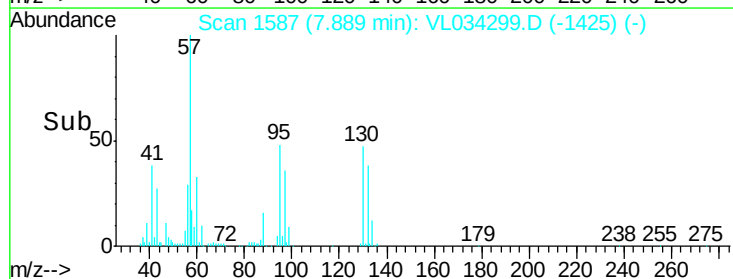
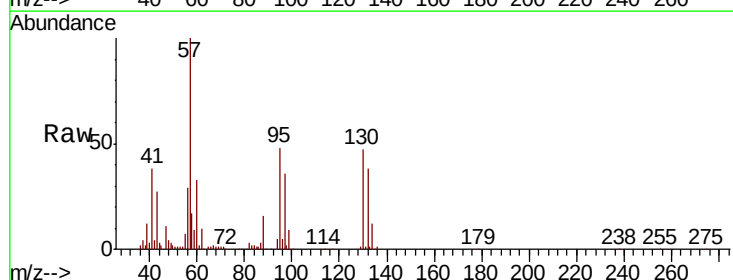
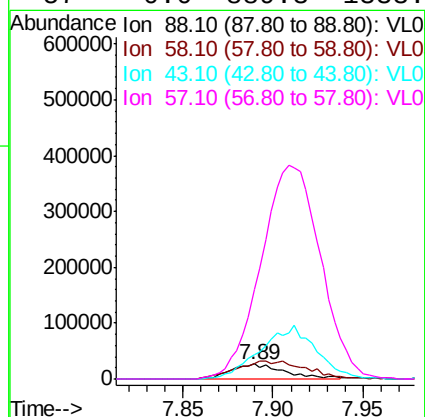
Manual Integrations
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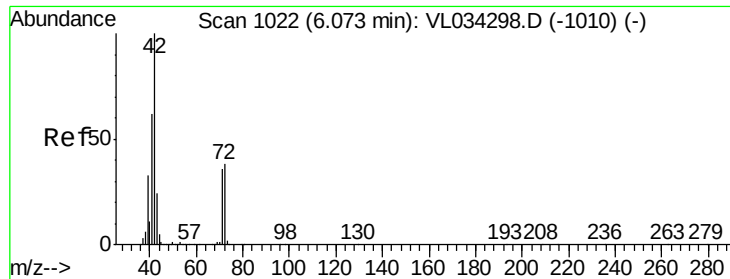
MMDadoda
 10/18/2019 3:03:47 PM



#40
 1,4-Dioxane
 Concen: 1.521 ppbv m
 RT: 7.89 min Scan# 1587
 Delta R.T. 0.02 min
 Lab File: VL034299.D
 Acq: 16 Oct 2019 13:33

Tgt Ion	Ratio	Lower	Upper
88	100		
58	160.2	110.3	165.5
43	0.0	228.1	342.1#
57	0.0	889.3	1333.9#





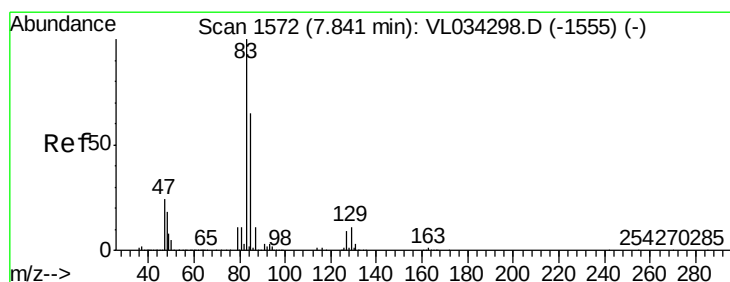
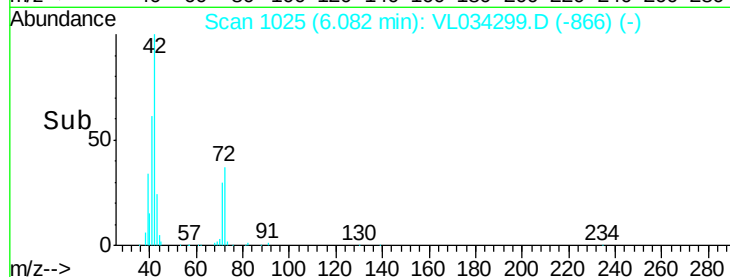
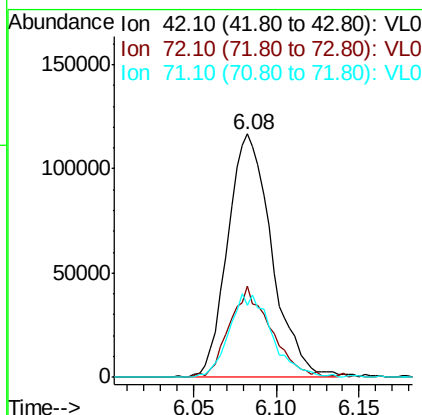
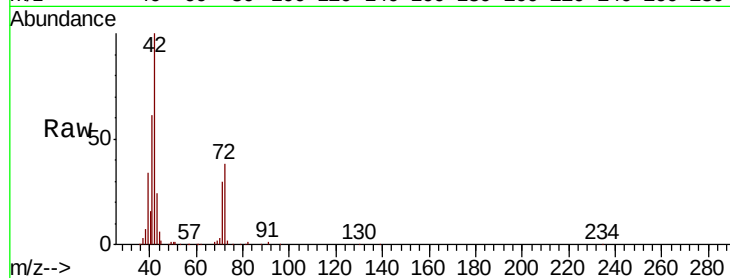
#41
Tetrahydrofuran
Concen: 1.611 ppbv
RT: 6.08 min Scan# 1025
Delta R.T. 0.01 min
Lab File: VL034299.D
Acq: 16 Oct 2019 13:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
42	100		
72	35.3	28.0	42.0
71	33.8	27.3	40.9

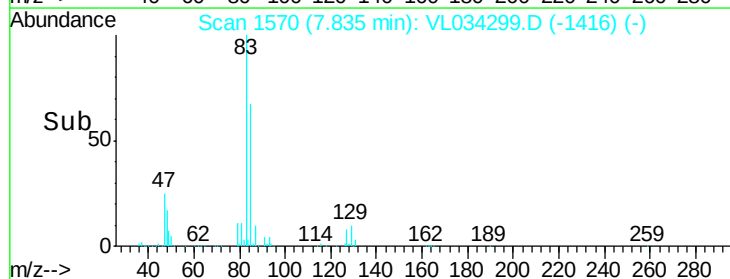
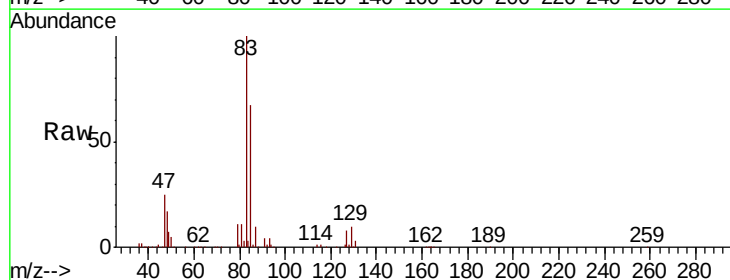
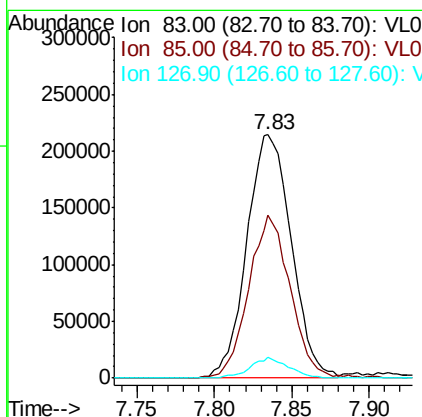
Manual Integrations
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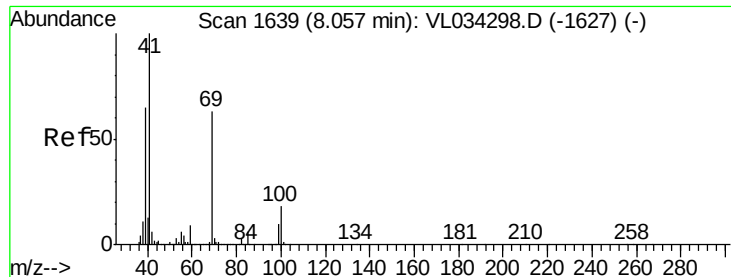
MMDadoda
10/18/2019 3:03:47 PM



#42
Bromodichloromethane
Concen: 1.971 ppbv
RT: 7.83 min Scan# 1570
Delta R.T. -0.01 min
Lab File: VL034299.D
Acq: 16 Oct 2019 13:33

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.8	51.8	77.6
127	8.4	7.0	10.6





#43

Methyl Methacrylate

Concen: 1.803 ppbv

RT: 8.06 min Scan# 1639

Delta R.T. 0.00 min

Lab File: VL034299.D

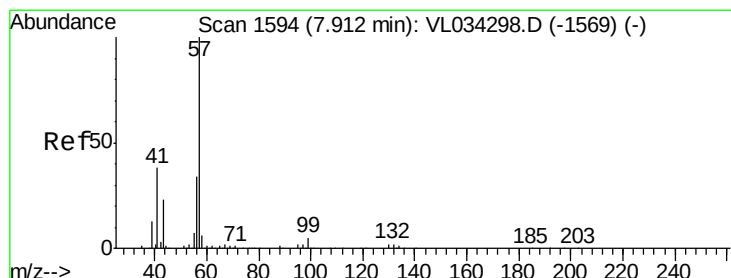
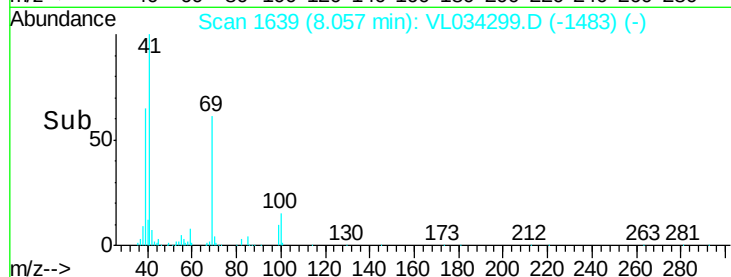
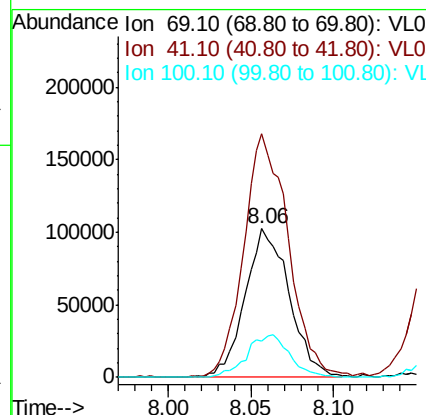
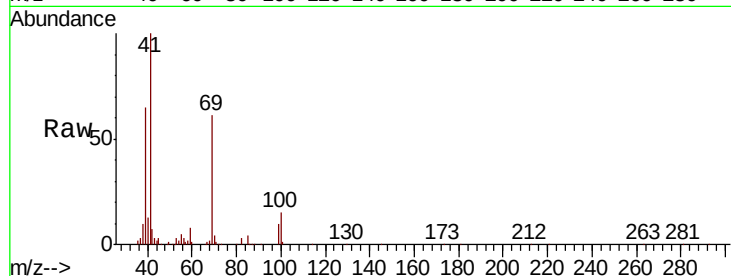
Acq: 16 Oct 2019 13:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
69	100		
41	165.8	132.1	198.1
100	28.3	23.2	34.8

Manual Integrations
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#44

2,2,4-Trimethylpentane

Concen: 1.803 ppbv

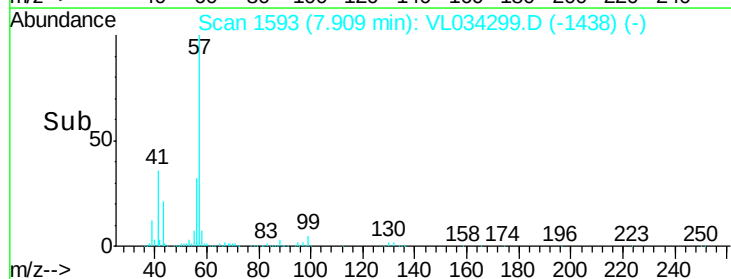
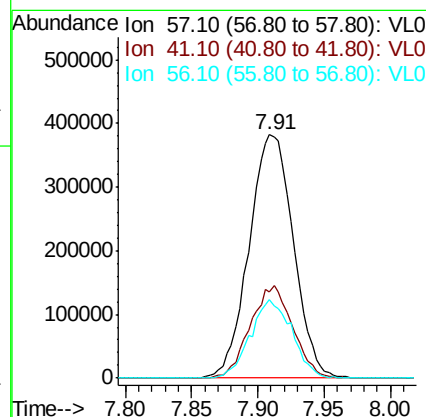
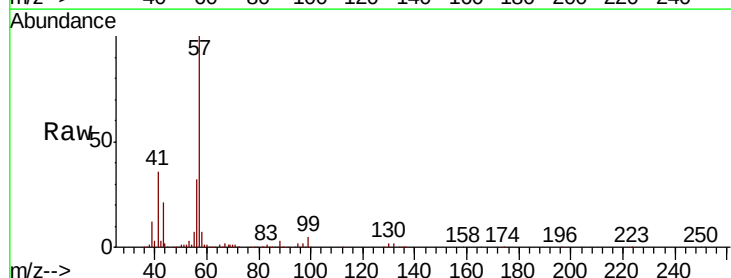
RT: 7.91 min Scan# 1593

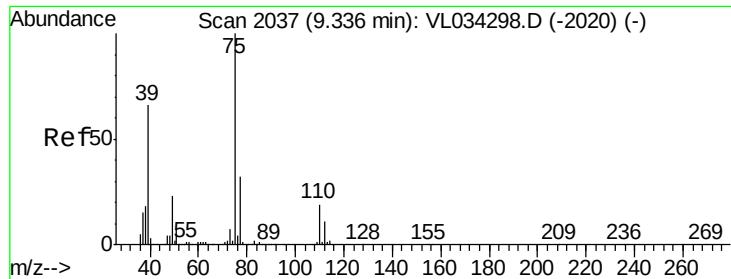
Delta R.T. -0.00 min

Lab File: VL034299.D

Acq: 16 Oct 2019 13:33

Tgt Ion	Ratio	Lower	Upper
57	100		
41	36.5	29.3	43.9
56	30.3	25.3	37.9





#45

t-1,3-Dichloropropene

Concen: 1.780 ppbv

RT: 9.33 min Scan# 2036

Delta R.T. -0.00 min

Lab File: VL034299.D

Acq: 16 Oct 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 75 Resp: 222090

Ion Ratio Lower Upper

75 100

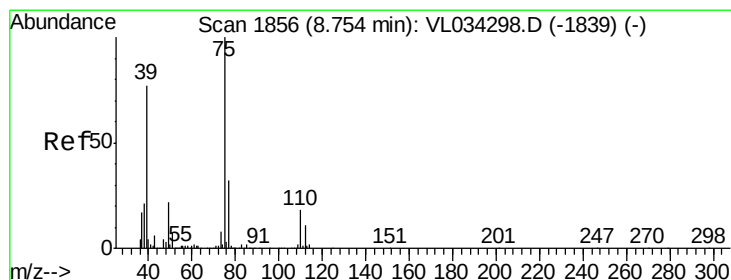
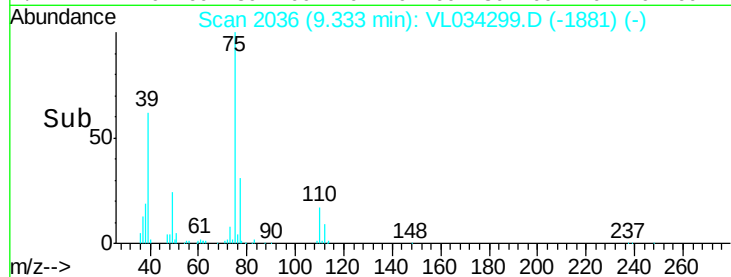
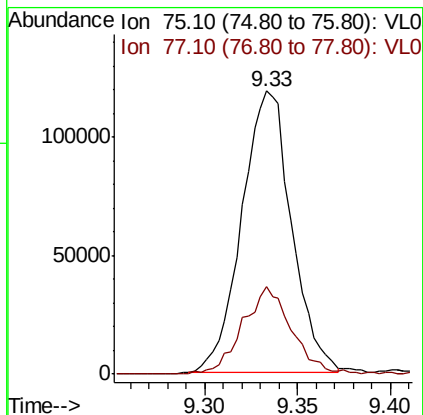
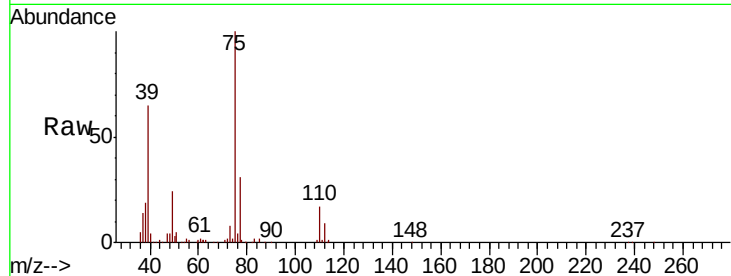
77 30.9 25.6 38.4

Manual Integrations

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#46

cis-1,3-Dichloropropene

Concen: 1.763 ppbv

RT: 8.75 min Scan# 1855

Delta R.T. -0.00 min

Lab File: VL034299.D

Acq: 16 Oct 2019 13:33

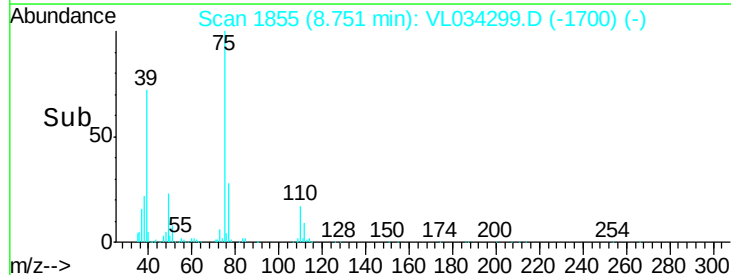
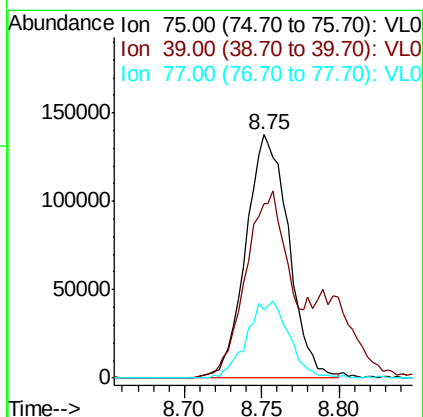
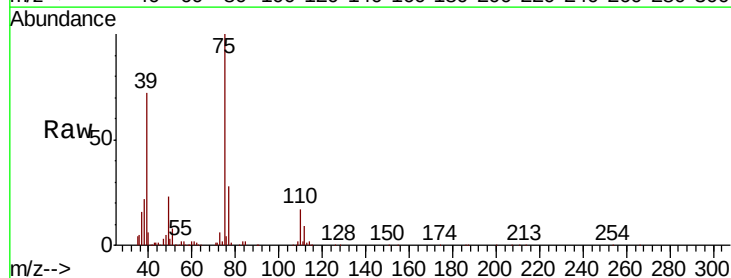
Tgt Ion: 75 Resp: 264478

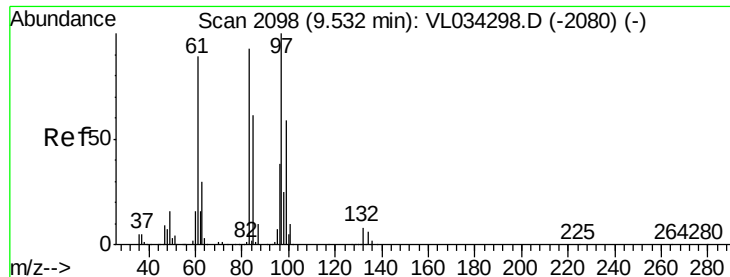
Ion Ratio Lower Upper

75 100

39 71.8 61.2 91.8

77 28.2 25.9 38.9





#47

1,1,2-Trichloroethane

Concen: 1.962 ppbv

RT: 9.53 min Scan# 2097

Delta R.T. -0.00 min

Lab File: VL034299.D

Acq: 16 Oct 2019 13:33

Instrument :

MSVOA_L

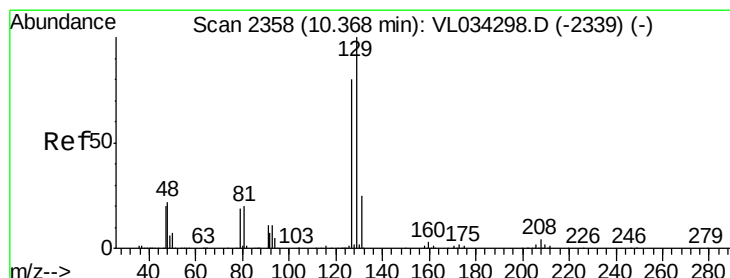
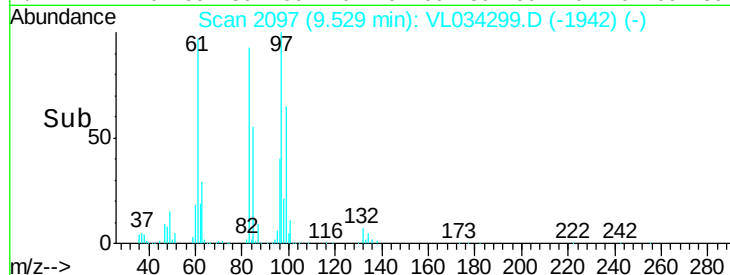
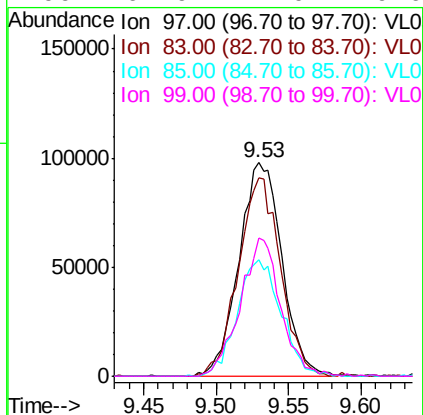
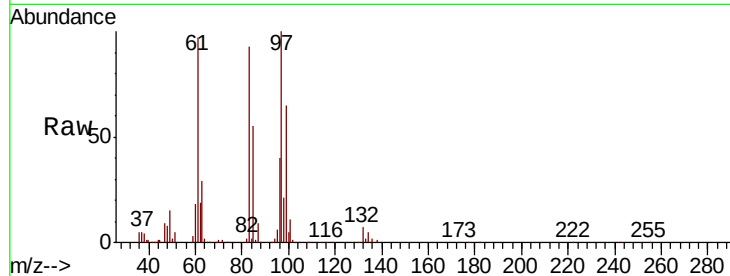
ClientSampleId :

VSTDIC002

Tot Ion:	97	Resp:	202116
Ion Ratio	Lower	Upper	
97	100		
83	92.9	74.2	111.2
85	54.0	48.6	73.0
99	64.9	47.0	70.6

Manual Integrations
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#48

Dibromochloromethane

Concen: 2.052 ppbv

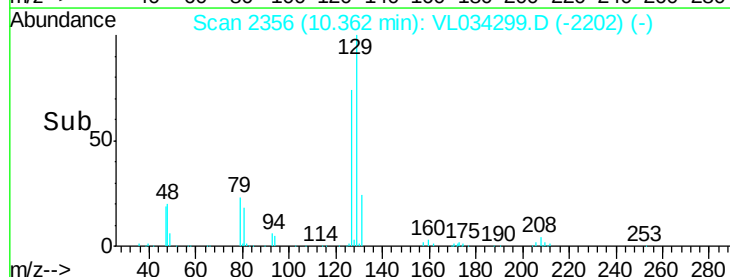
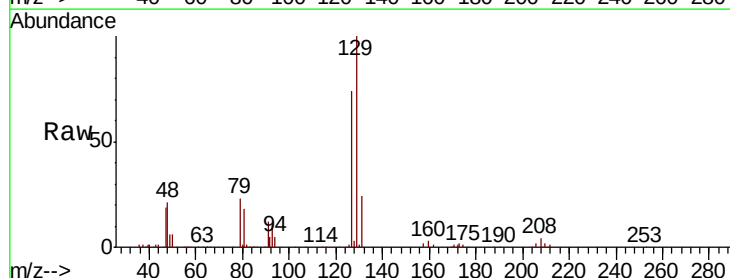
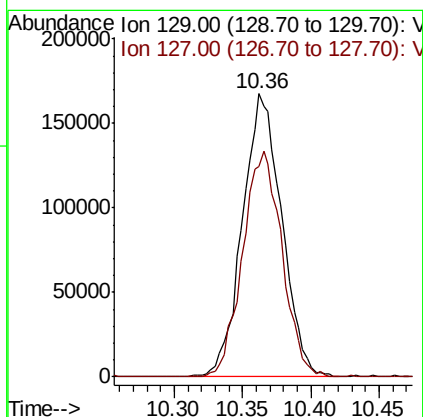
RT: 10.36 min Scan# 2356

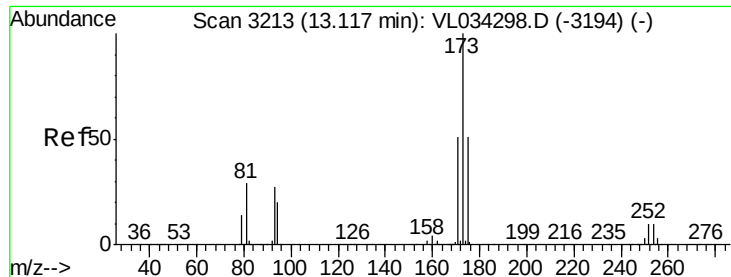
Delta R.T. -0.01 min

Lab File: VL034299.D

Acq: 16 Oct 2019 13:33

Tgt Ion:	129	Resp:	335206
Ion Ratio	Lower	Upper	
129	100		
127	79.6	39.7	119.1





#49

Bromoform

Concen: 2.232 ppbv

RT: 13.11 min Scan# 3212

Delta R.T. -0.00 min

Lab File: VL034299.D

Acq: 16 Oct 2019 13:33

Instrument :

MSVOA_L

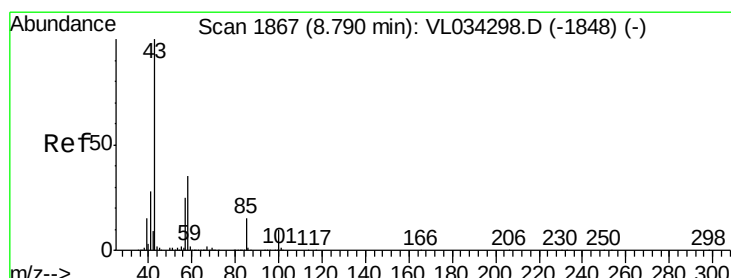
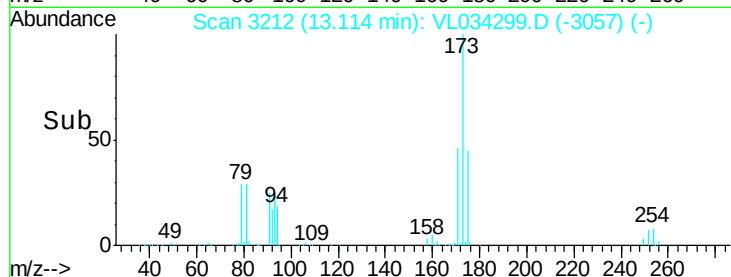
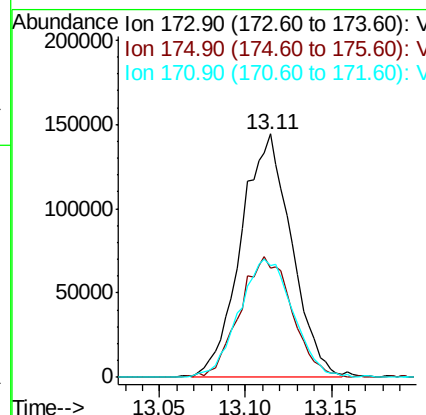
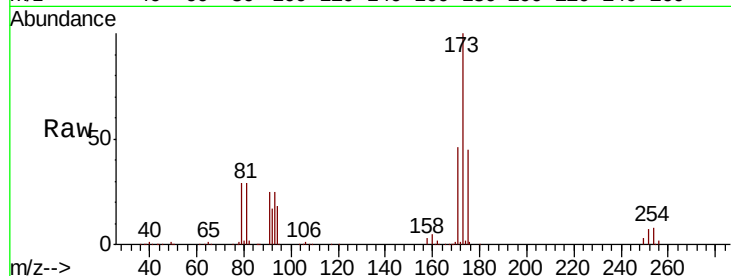
ClientSampleId :

VSTDIC002

Tot Ion:	173	Resp:	294935
Ion Ratio	Lower	Upper	
173	100		
175	51.4	39.8	59.6
171	51.7	41.8	62.6

Manual Integrations
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#50

4-Methyl-2-Pentanone

Concen: 1.703 ppbv

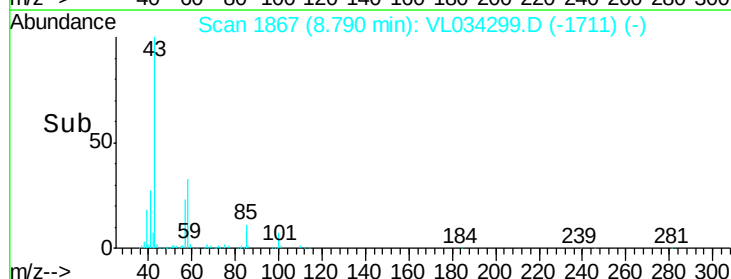
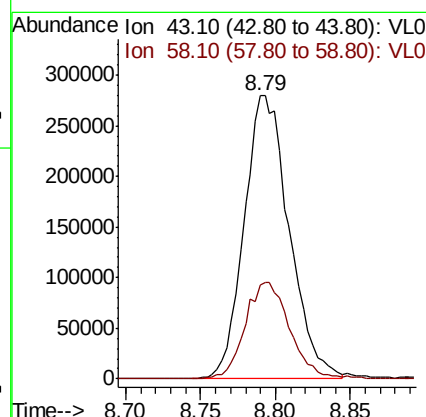
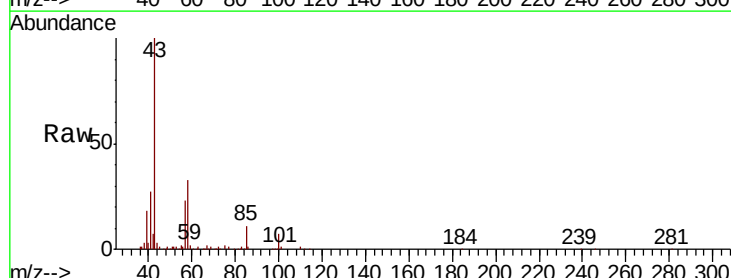
RT: 8.79 min Scan# 1867

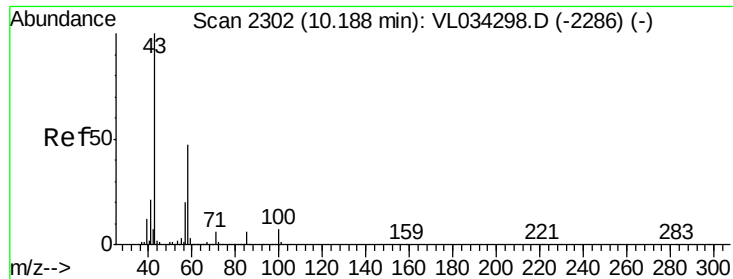
Delta R.T. 0.00 min

Lab File: VL034299.D

Acq: 16 Oct 2019 13:33

Tgt Ion:	43	Resp:	585314
Ion Ratio	Lower	Upper	
43	100		
58	34.1	27.6	41.4





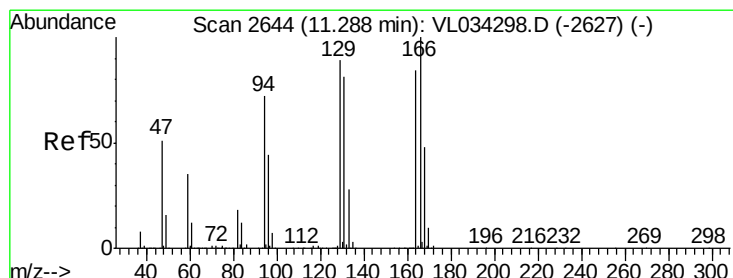
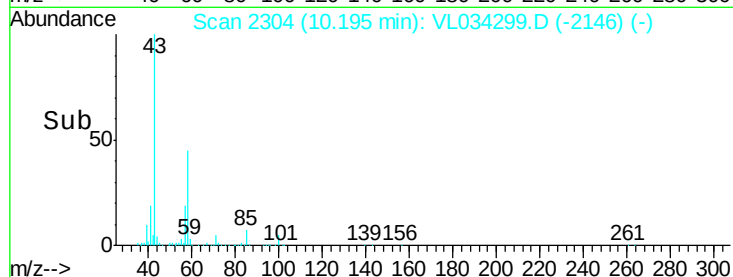
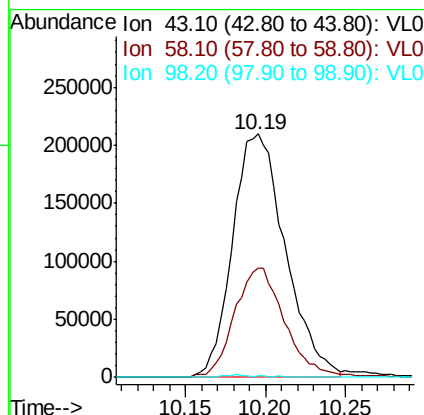
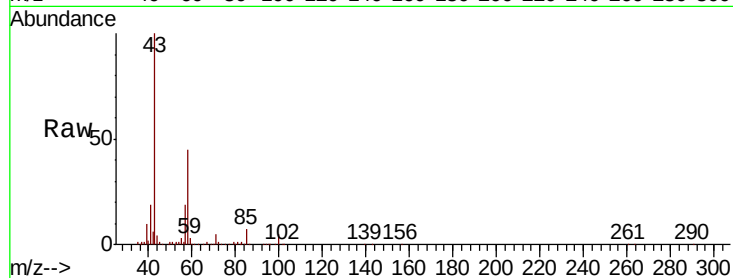
#51
2-Hexanone
Concen: 1.630 ppbv
RT: 10.19 min Scan# 2304
Delta R.T. 0.01 min
Lab File: VL034299.D
Acq: 16 Oct 2019 13:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
43	100		
58	43.5	37.0	55.6
98	0.6	0.2	0.2#

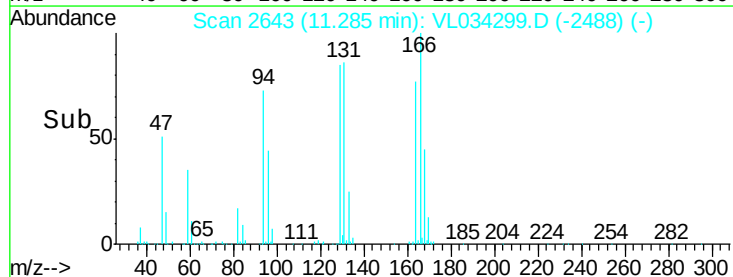
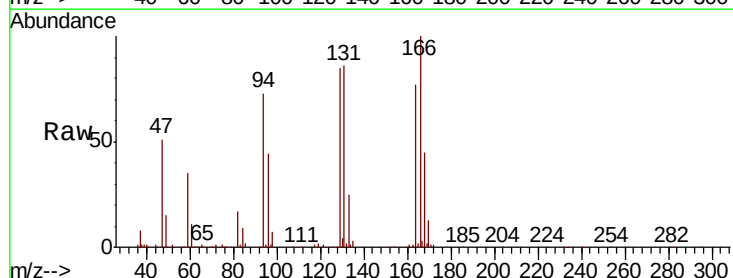
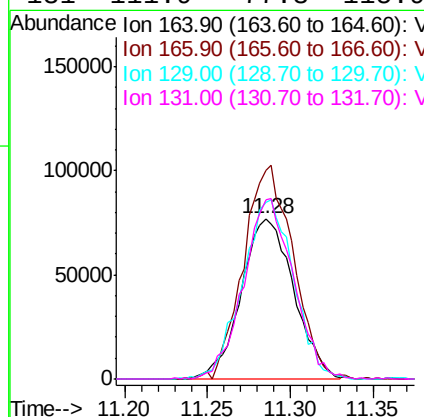
Manual Integrations
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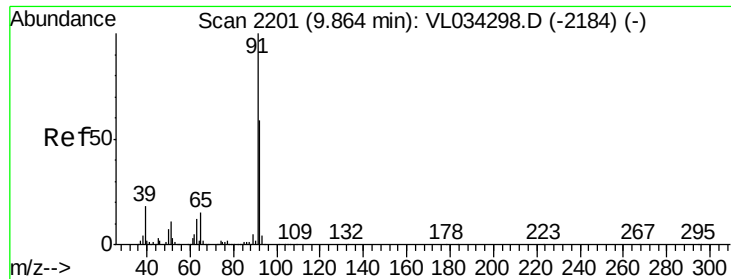
MMDadoda
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#52
Tetrachloroethene
Concen: 2.010 ppbv
RT: 11.28 min Scan# 2643
Delta R.T. -0.00 min
Lab File: VL034299.D
Acq: 16 Oct 2019 13:33

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.5	95.3	142.9
129	108.8	84.5	126.7
131	111.9	77.3	115.9





#53

Toluene

Concen: 1.892 ppbv

RT: 9.86 min Scan# 2200

Delta R.T. -0.00 min

Lab File: VL034299.D

Acq: 16 Oct 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 528142

Ion Ratio Lower Upper

91 100

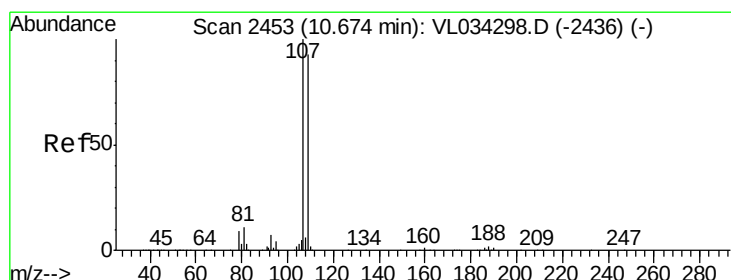
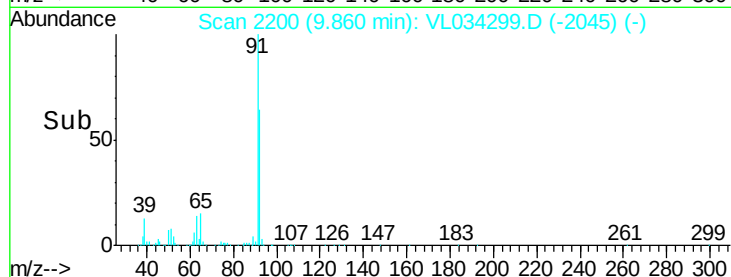
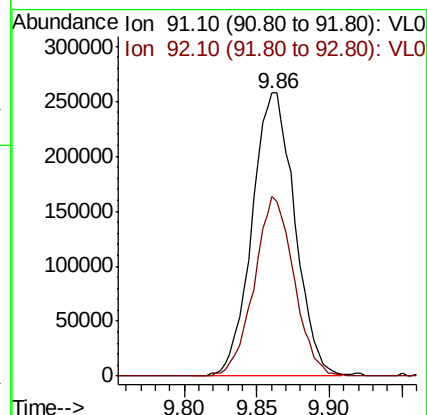
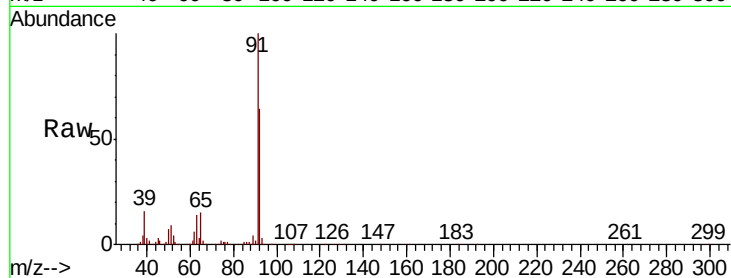
92 59.3 48.4 72.6

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 1.946 ppbv

RT: 10.67 min Scan# 2453

Delta R.T. 0.00 min

Lab File: VL034299.D

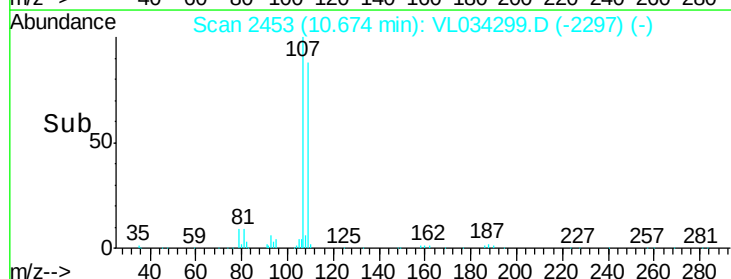
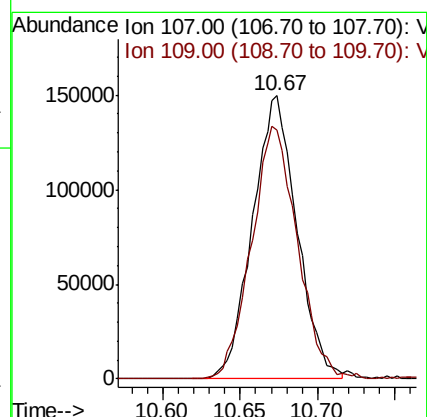
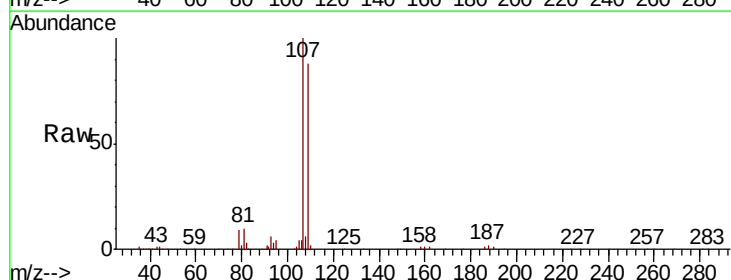
Acq: 16 Oct 2019 13:33

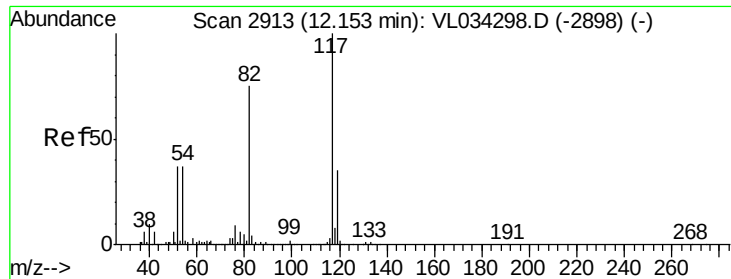
Tgt Ion: 107 Resp: 298175

Ion Ratio Lower Upper

107 100

109 87.8 74.6 112.0





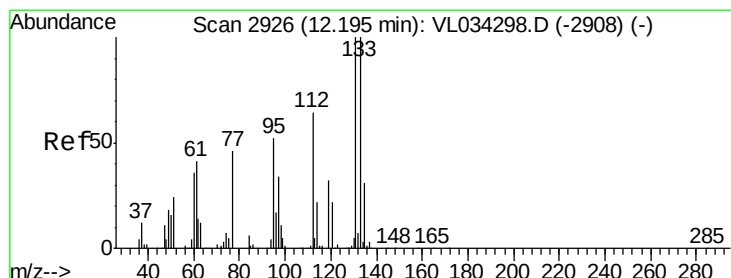
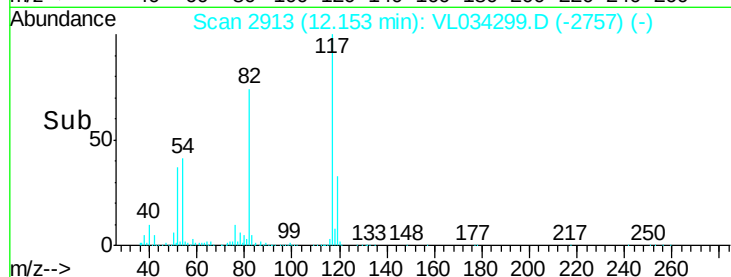
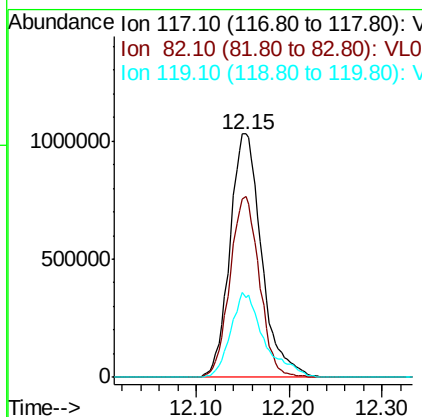
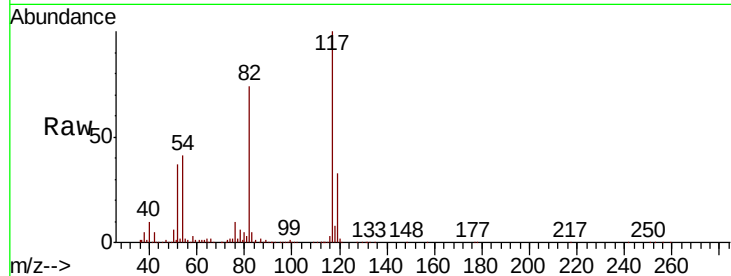
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.15 min Scan# 2913
Delta R.T. 0.00 min
Lab File: VL034299.D
Acq: 16 Oct 2019 13:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
117	100		
82	69.3	55.5	83.3
119	36.8	26.5	39.7

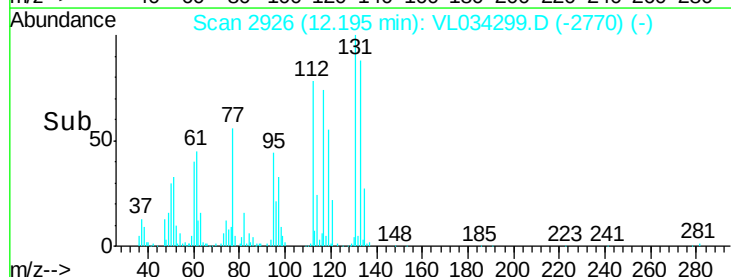
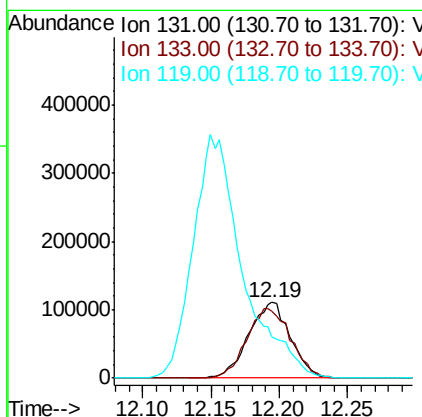
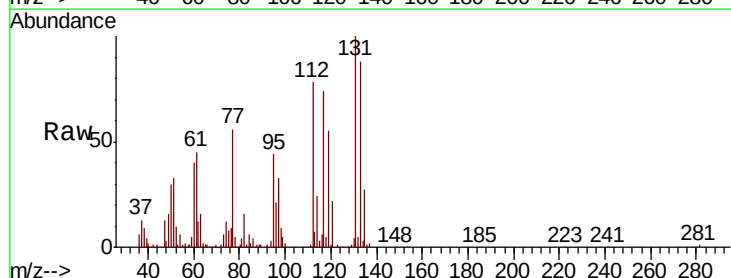
Manual Integrations
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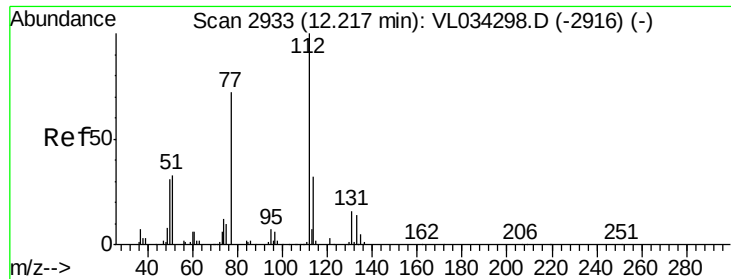
MMDadoda
10/18/2019 3:03:47 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 2.163 ppbv
RT: 12.19 min Scan# 2926
Delta R.T. 0.00 min
Lab File: VL034299.D
Acq: 16 Oct 2019 13:33

Tgt Ion	Ratio	Lower	Upper
131	100		
133	97.4	77.1	115.7
119	381.1	49.0	73.4#





#57

Chlorobenzene

Concen: 1.971 ppbv m

RT: 12.21 min Scan# 2931

Delta R.T. -0.01 min

Lab File: VL034299.D

Acq: 16 Oct 2019 13:33

Instrument :

MSVOA_L

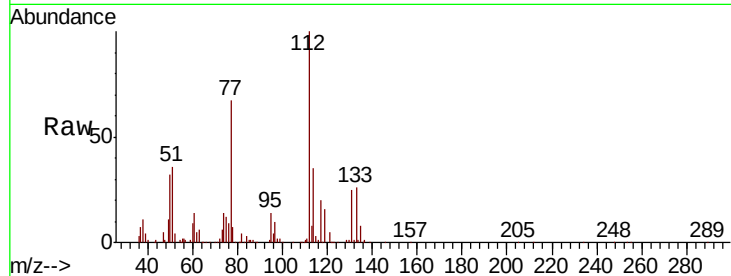
ClientSampleId :

VSTDIC002

Tot Ion:	112	Resp:	419531
Ion Ratio	Lower	Upper	
112	100		
77	66.9	58.6	88.0
114	35.0	28.6	35.0

Manual Integrations
APPROVED

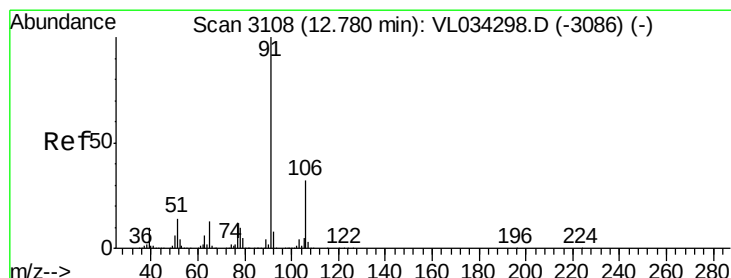
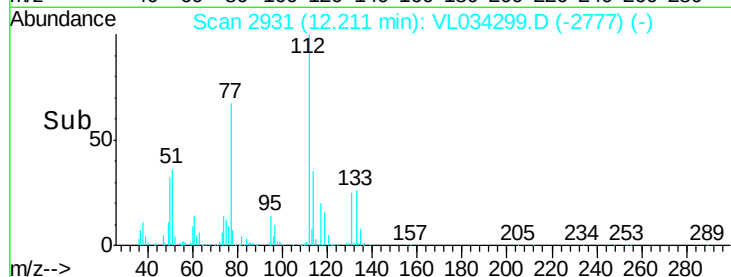
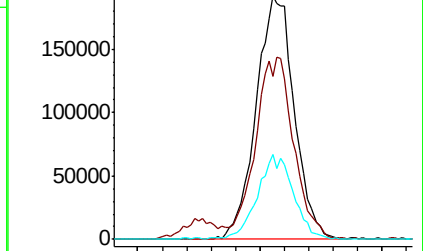
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 1.890 ppbv

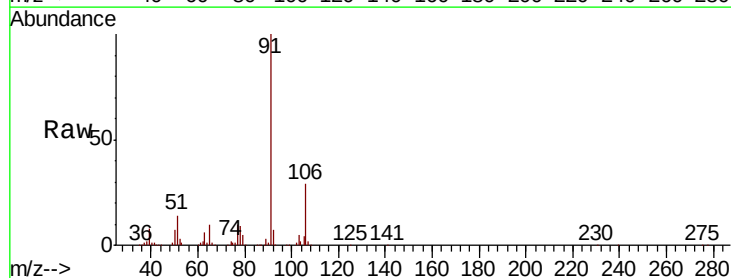
RT: 12.77 min Scan# 3106

Delta R.T. -0.01 min

Lab File: VL034299.D

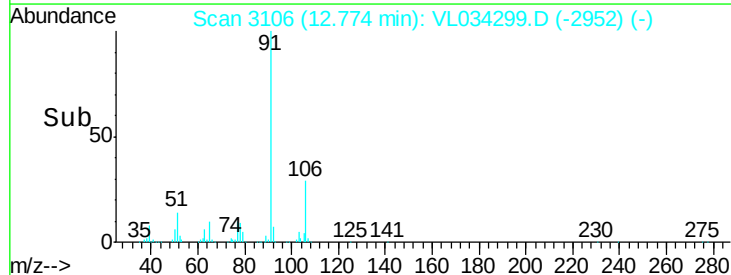
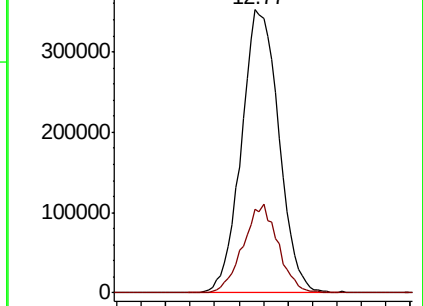
Acq: 16 Oct 2019 13:33

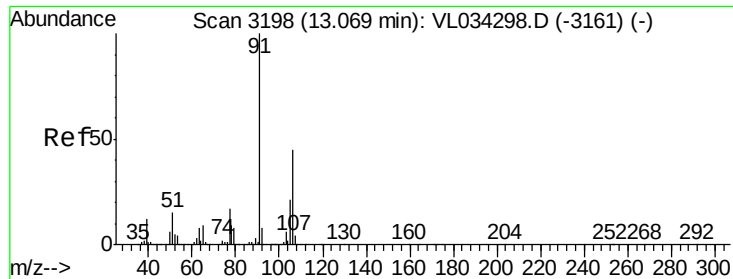
Tgt Ion:	91	Resp:	745465
Ion Ratio	Lower	Upper	
91	100		
106	29.4	25.3	37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





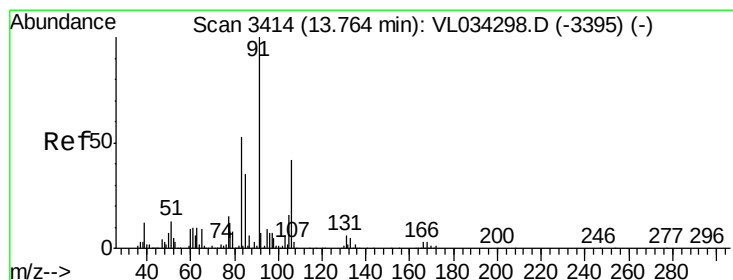
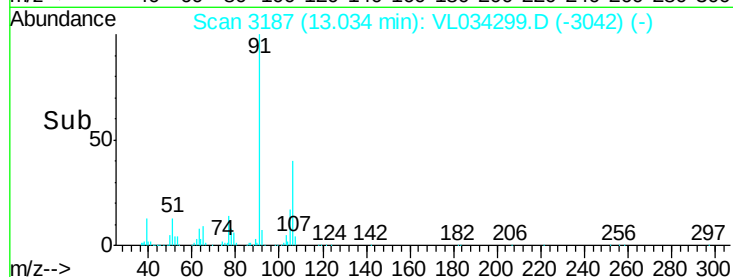
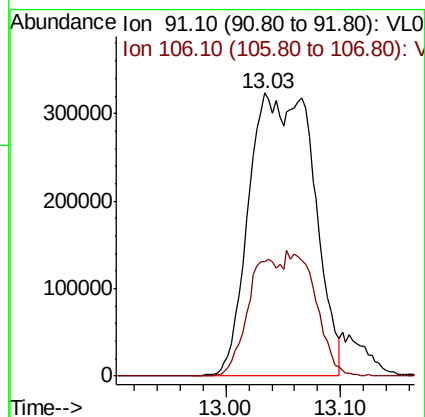
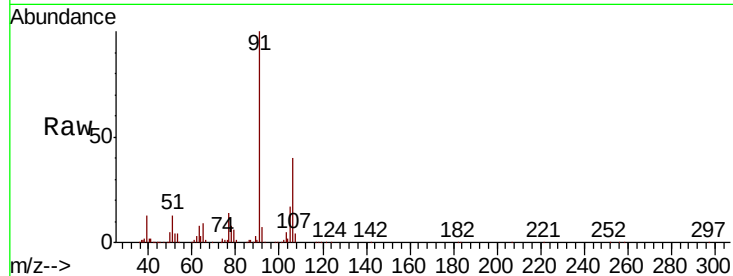
#59
m/p-Xylene
Concen: 3.859 ppbv m
RT: 13.03 min Scan# 3187
Delta R.T. -0.04 min
Lab File: VL034299.D
Acq: 16 Oct 2019 13:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 91 Resp: 1261147
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2#

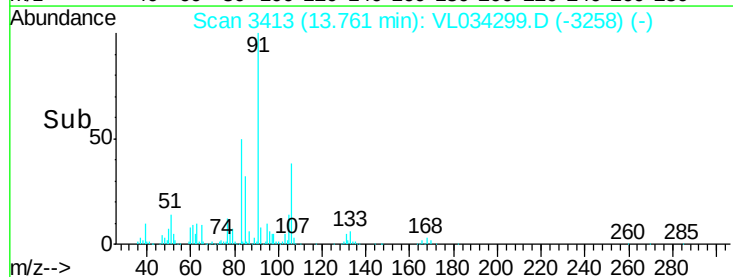
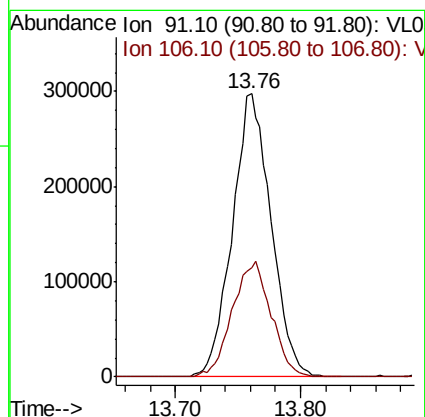
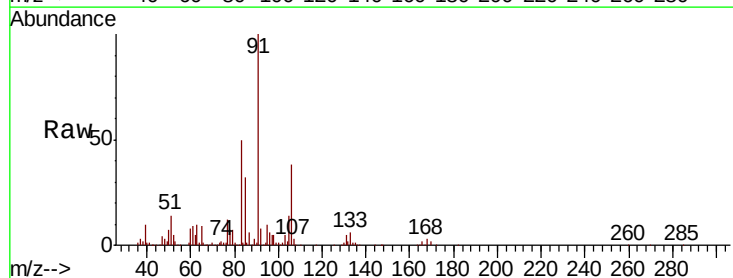
Manual Integrations
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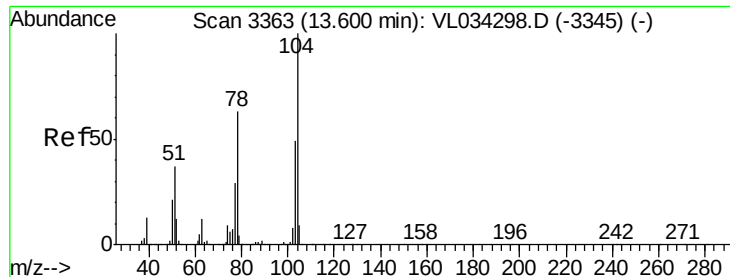
MMDadoda
10/18/2019 3:03:47 PM



#60
o-Xylene
Concen: 1.942 ppbv
RT: 13.76 min Scan# 3413
Delta R.T. -0.00 min
Lab File: VL034299.D
Acq: 16 Oct 2019 13:33

Tgt Ion: 91 Resp: 634557
Ion Ratio Lower Upper
91 100
106 41.0 21.6 64.6





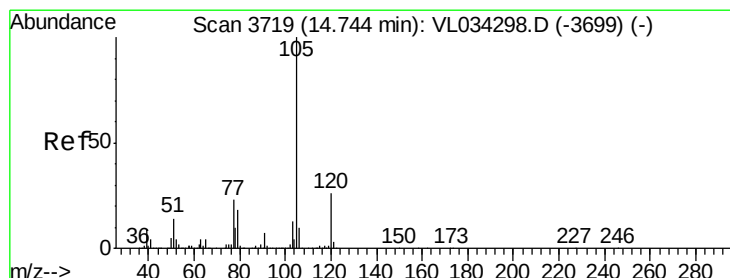
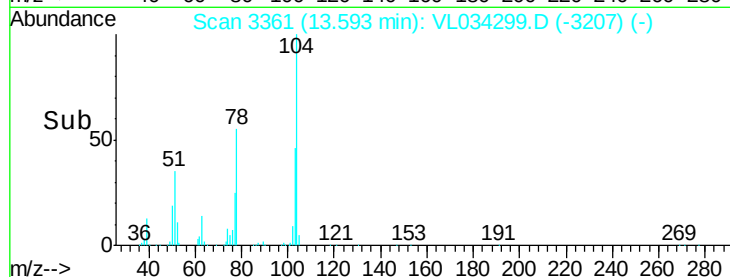
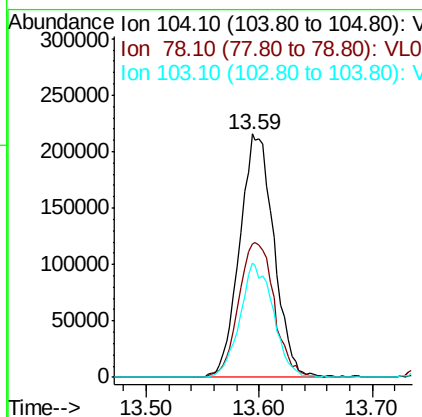
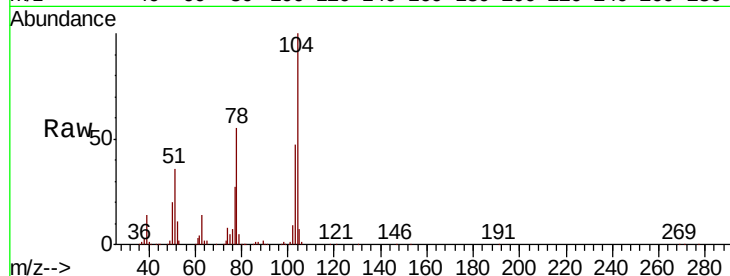
#61
Stvrene
Concen: 1.938 ppbv m
RT: 13.59 min Scan# 3361
Delta R.T. -0.01 min
Lab File: VL034299.D
Acq: 16 Oct 2019 13:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
104	100		
78	57.9	47.8	71.8
103	0.0	39.0	58.6#

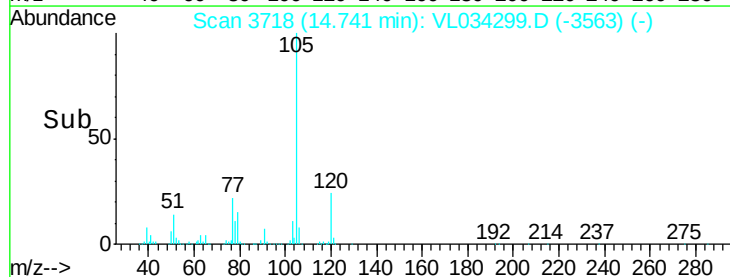
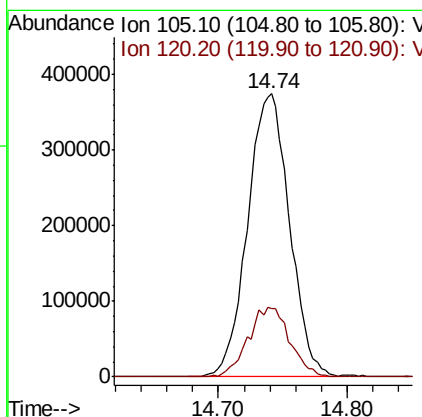
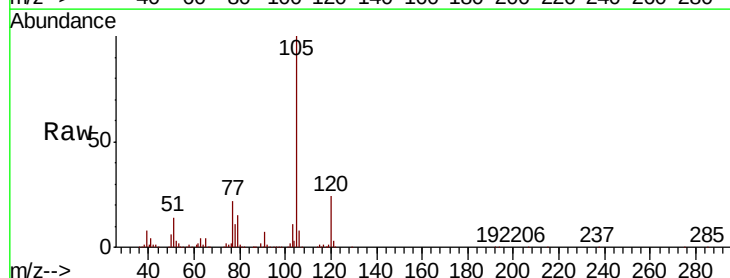
Manual Integrations
APPROVED

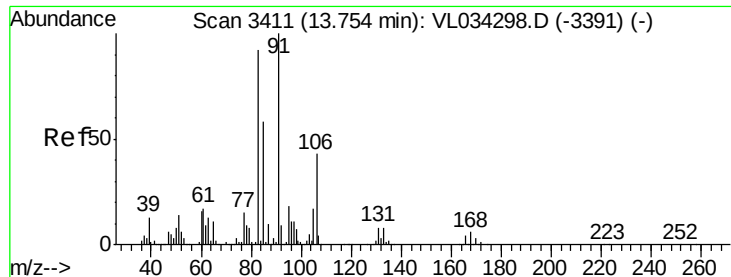
MMDadoda
10/18/2019 3:03:47 PM



#62
Isopropylbenzene
Concen: 1.998 ppbv
RT: 14.74 min Scan# 3718
Delta R.T. -0.00 min
Lab File: VL034299.D
Acq: 16 Oct 2019 13:33

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.4	20.8	31.2





#63

1,1,2,2-Tetrachloroethane

Concen: 1.722 ppbv m

RT: 13.74 min Scan# 3408

Delta R.T. -0.01 min

Lab File: VL034299.D

Acq: 16 Oct 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 83 Resp: 461267
Ion Ratio Lower Upper

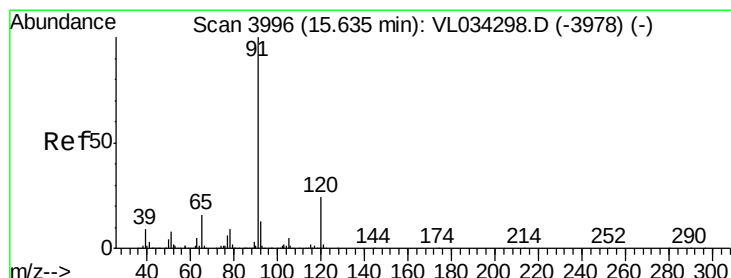
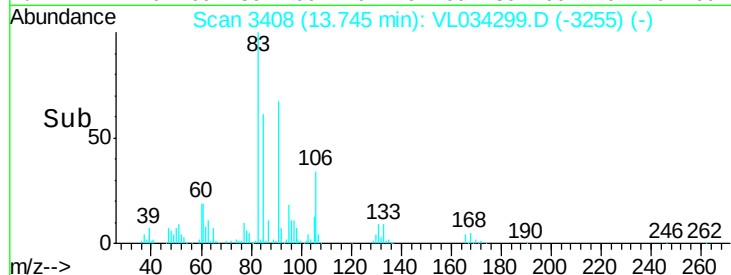
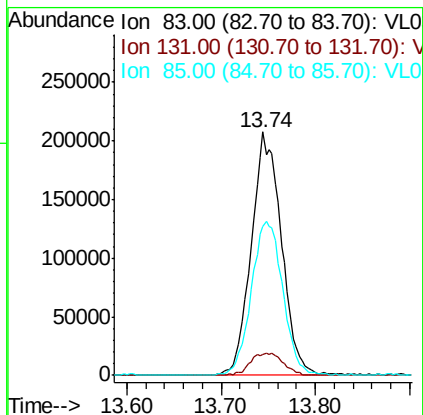
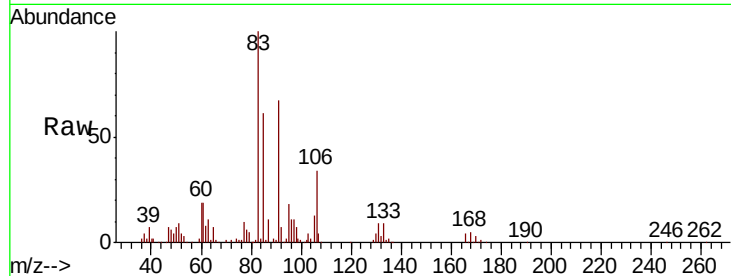
83 100

131 10.1 4.8 14.4

85 66.5 32.5 97.4

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#64

n-propylbenzene

Concen: 1.990 ppbv

RT: 15.64 min Scan# 3997

Delta R.T. 0.00 min

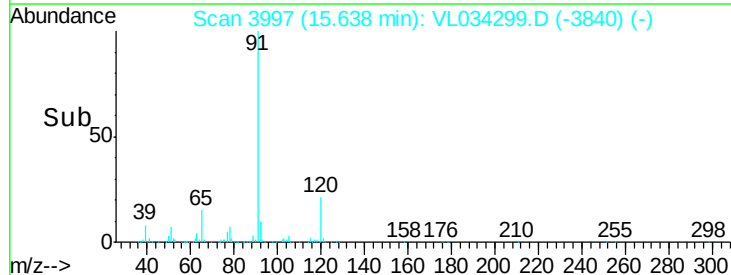
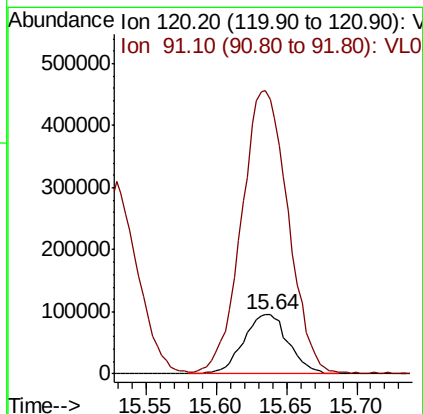
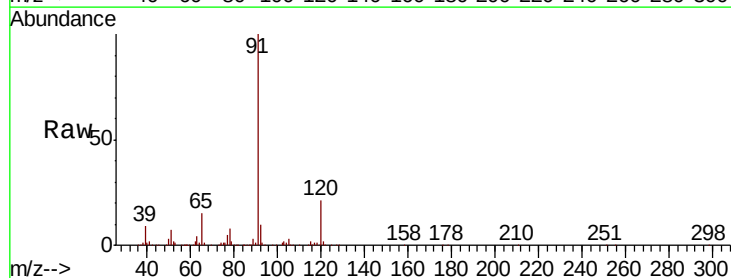
Lab File: VL034299.D

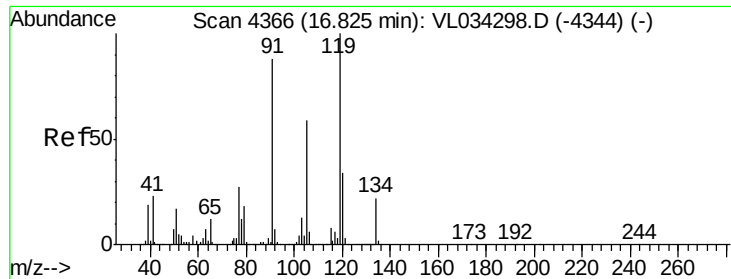
Acq: 16 Oct 2019 13:33

Tgt Ion:120 Resp: 212931
Ion Ratio Lower Upper

120 100

91 492.0 374.9 562.3





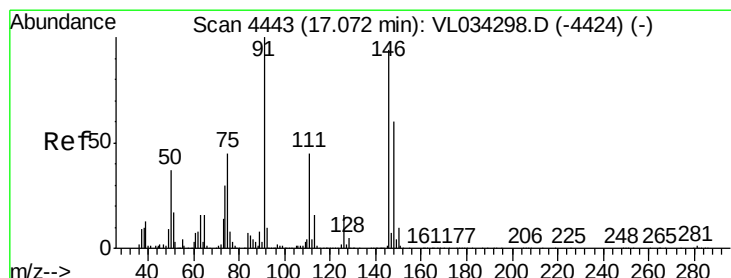
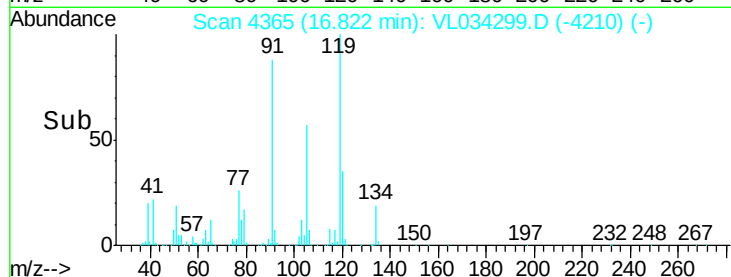
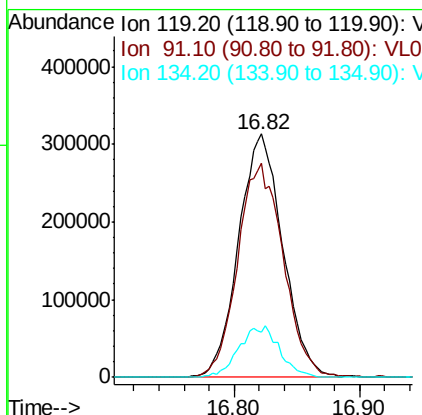
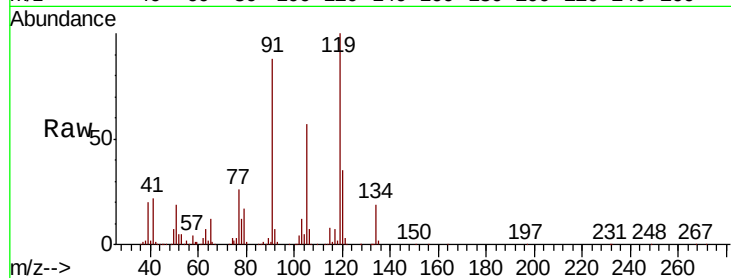
#65
tert-Butylbenzene
Concen: 2.068 ppbv
RT: 16.82 min Scan# 4365
Delta R.T. -0.00 min
Lab File: VL034299.D
Acq: 16 Oct 2019 13:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
119	100		
91	90.9	71.4	107.0
134	19.5	15.9	23.9

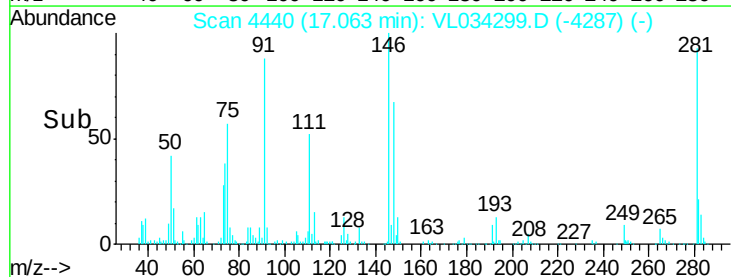
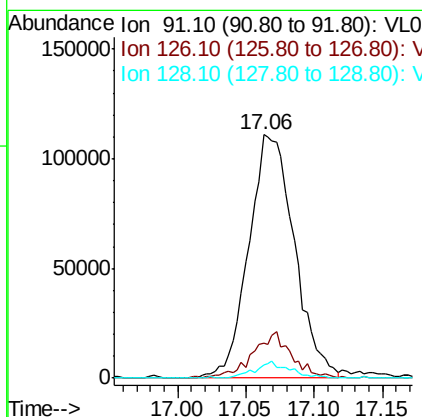
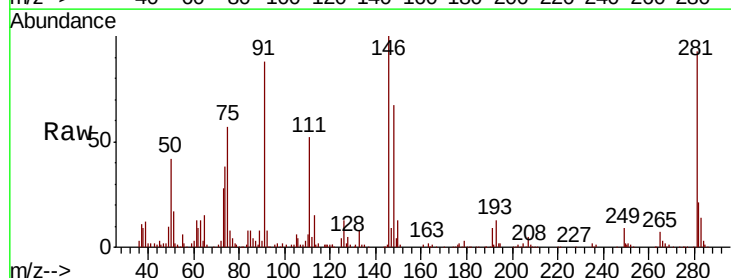
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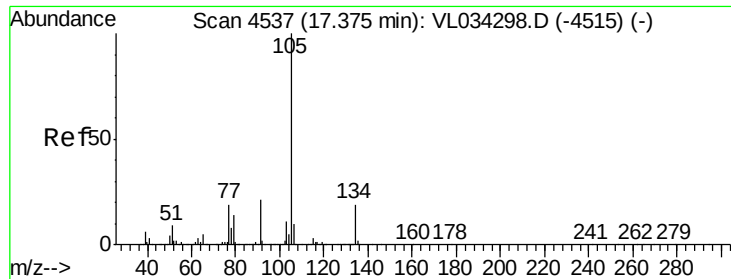
MMDadoda
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#66
Benzyl Chloride
Concen: 1.971 ppbv
RT: 17.06 min Scan# 4440
Delta R.T. -0.01 min
Lab File: VL034299.D
Acq: 16 Oct 2019 13:33

Tgt Ion	Ratio	Lower	Upper
91	100		
126	16.4	12.9	19.3
128	5.4	4.3	6.5





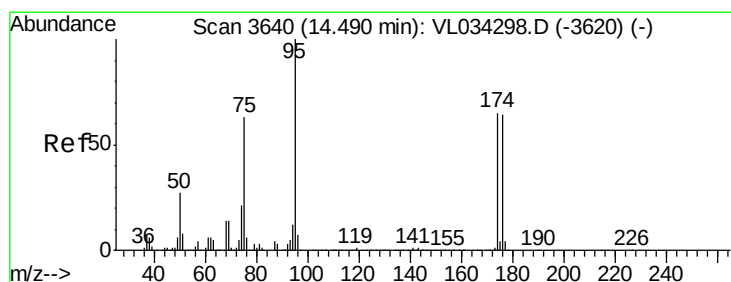
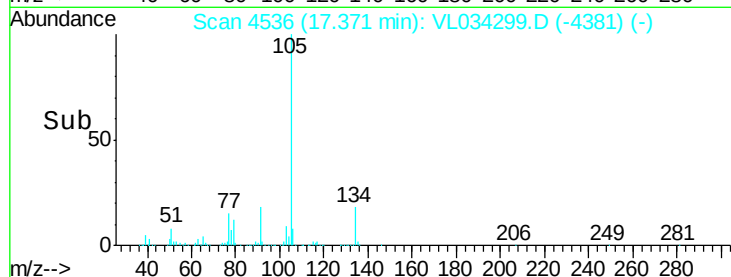
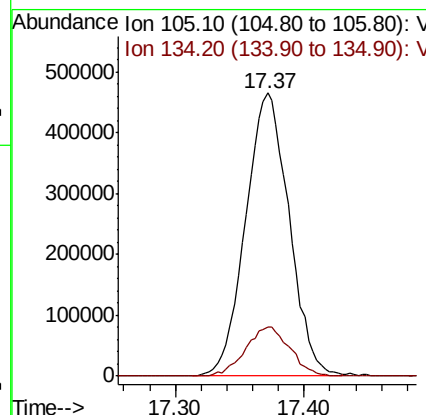
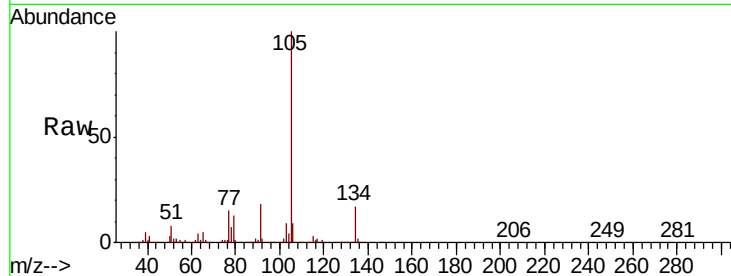
#67
 sec-Butylbenzene
 Concen: 2.061 ppbv
 RT: 17.37 min Scan# 4536
 Delta R.T. -0.00 min
 Lab File: VL034299.D
 Acq: 16 Oct 2019 13:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion: 105 Resp: 1089457
 Ion Ratio Lower Upper
 105 100
 134 17.9 15.4 23.0

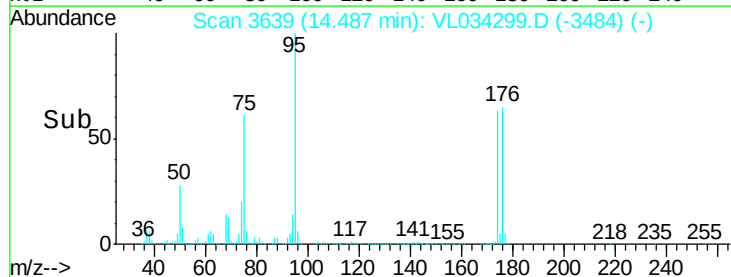
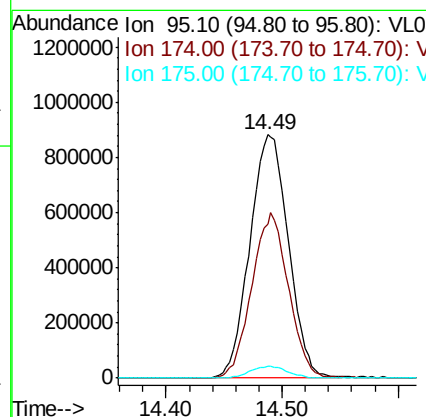
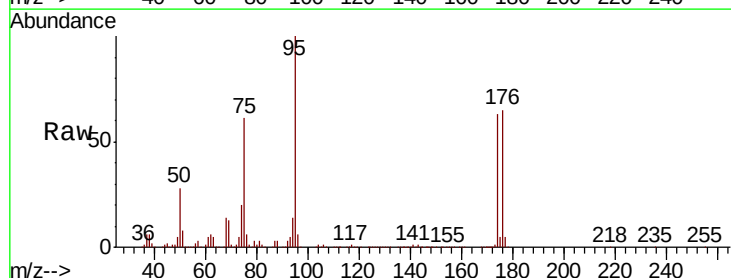
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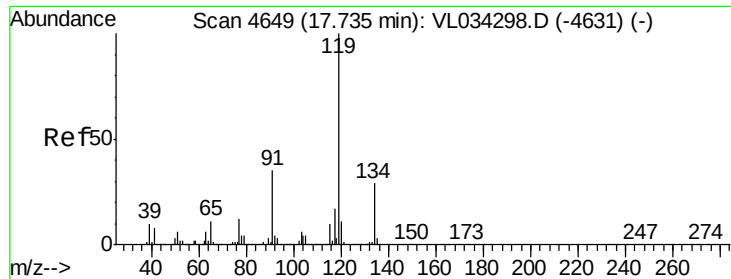
MMDadoda
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.593 ppbv
 RT: 14.49 min Scan# 3639
 Delta R.T. -0.00 min
 Lab File: VL034299.D
 Acq: 16 Oct 2019 13:33

Tgt Ion: 95 Resp: 2038090
 Ion Ratio Lower Upper
 95 100
 174 65.3 52.6 78.8
 175 4.8 3.8 5.6





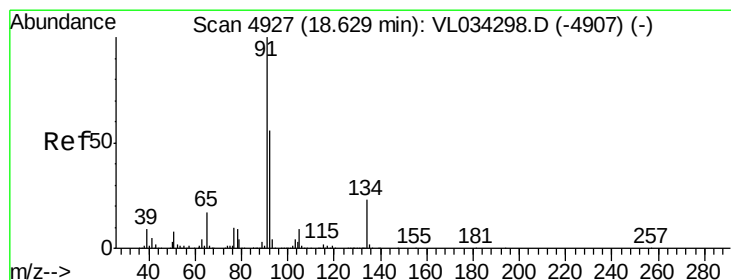
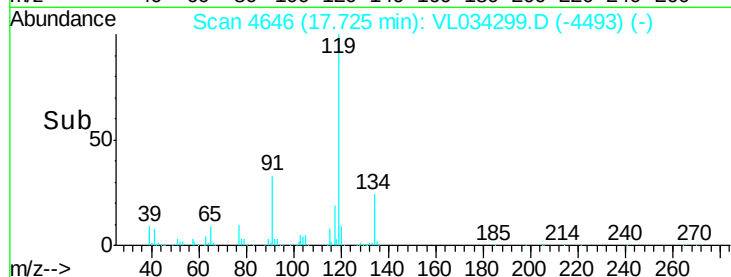
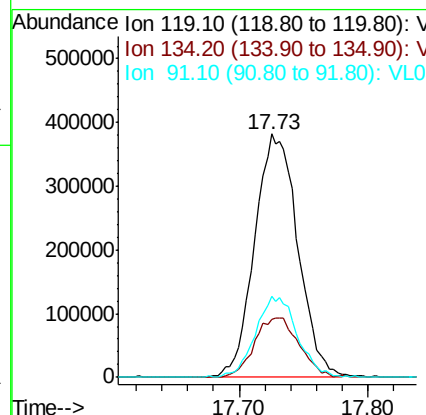
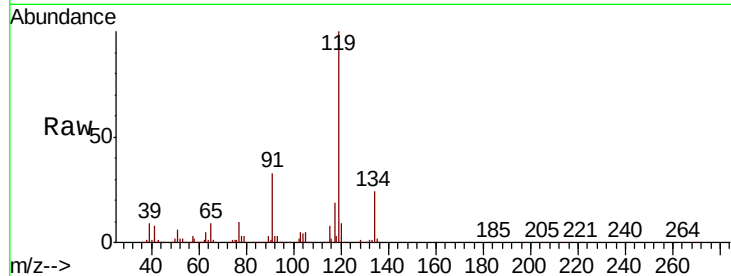
#69
 p-Isopropyltoluene
 Concen: 2.078 ppbv
 RT: 17.73 min Scan# 4646
 Delta R.T. -0.01 min
 Lab File: VL034299.D
 Acq: 16 Oct 2019 13:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
119	100	889403		
134	25.6		21.3	31.9
91	32.6		26.6	39.8

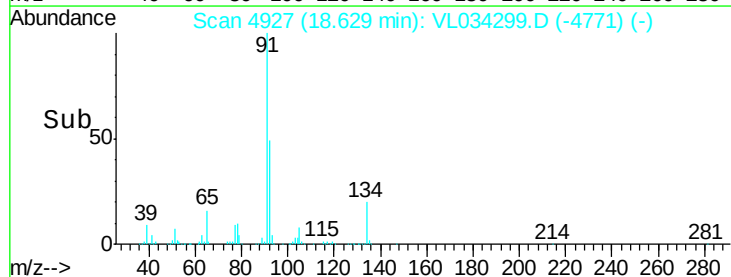
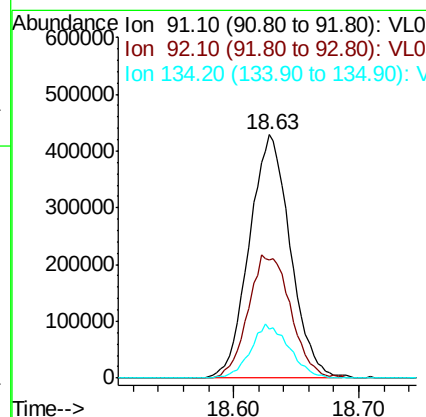
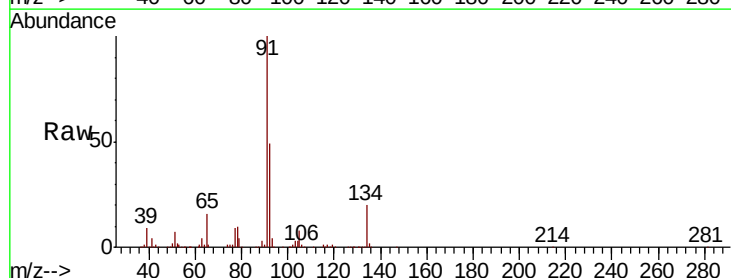
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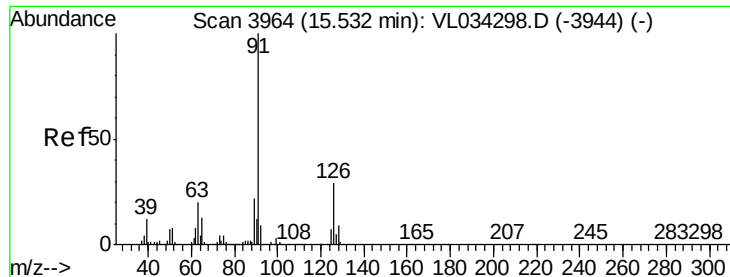
MMDadoda
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#70
 n-Butylbenzene
 Concen: 1.957 ppbv
 RT: 18.63 min Scan# 4927
 Delta R.T. 0.00 min
 Lab File: VL034299.D
 Acq: 16 Oct 2019 13:33

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	975018		
92	52.5		44.5	66.7
134	21.1		18.2	27.2





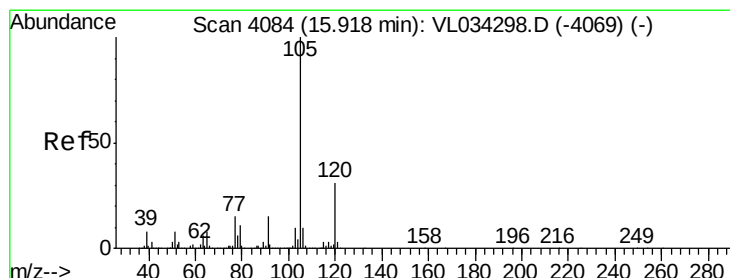
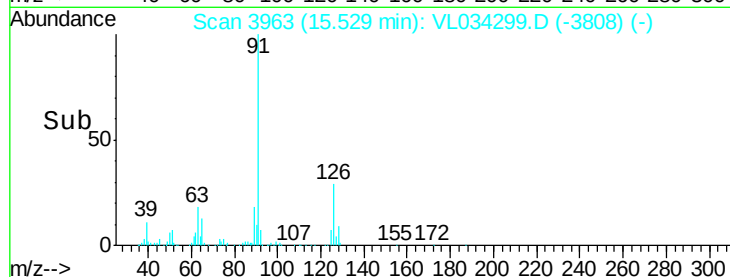
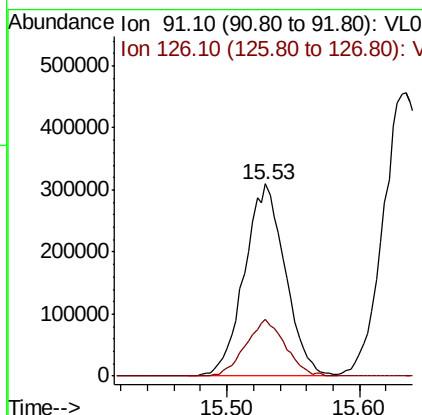
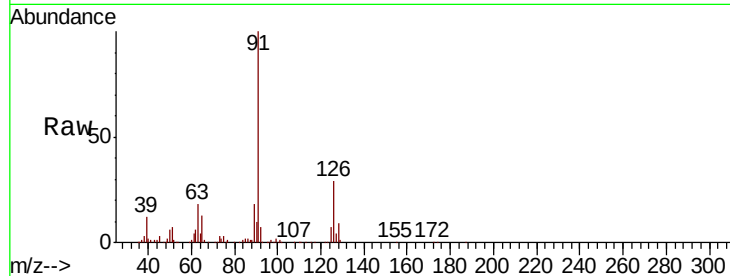
#71
 2-Chlorotoluene
 Concen: 1.919 ppbv
 RT: 15.53 min Scan# 3963
 Delta R.T. -0.00 min
 Lab File: VL034299.D
 Acq: 16 Oct 2019 13:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
91	100		
126	28.6	11.9	47.5

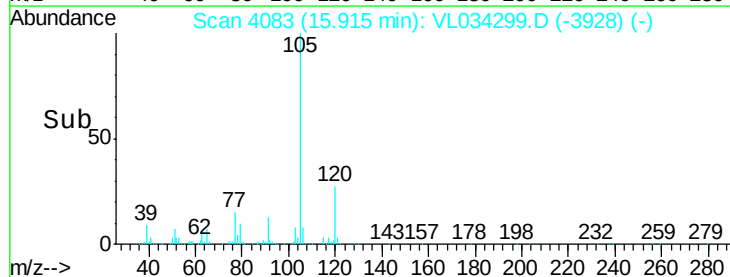
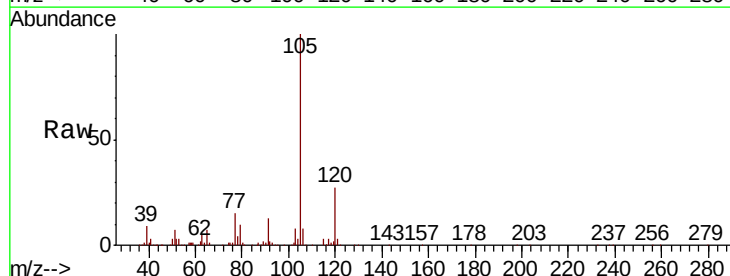
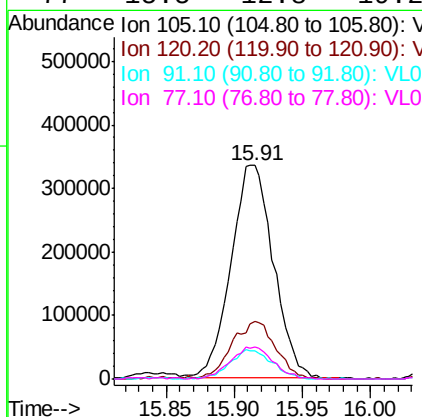
Manual Integrations
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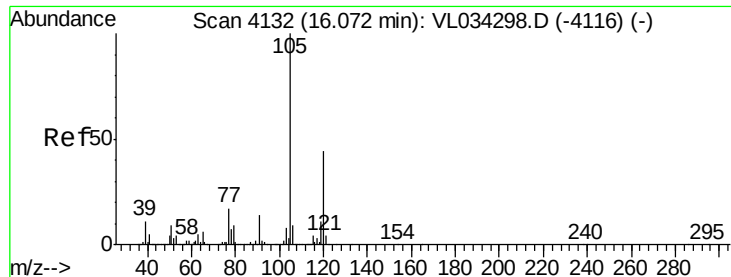
MMDadoda
 10/18/2019 3:03:47 PM



#72
 4-Ethyltoluene
 Concen: 1.961 ppbv
 RT: 15.91 min Scan# 4083
 Delta R.T. -0.00 min
 Lab File: VL034299.D
 Acq: 16 Oct 2019 13:33

Tgt Ion	Ratio	Lower	Upper
105	100		
120	29.0	23.8	35.8
91	13.9	11.2	16.8
77	15.5	12.8	19.2





#73

1,3,5-Trimethylbenzene

Concen: 1.978 ppbv

RT: 16.07 min Scan# 4131

Delta R.T. -0.00 min

Lab File: VL034299.D

Acq: 16 Oct 2019 13:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:105 Resp: 705578

Ion Ratio Lower Upper

105 100

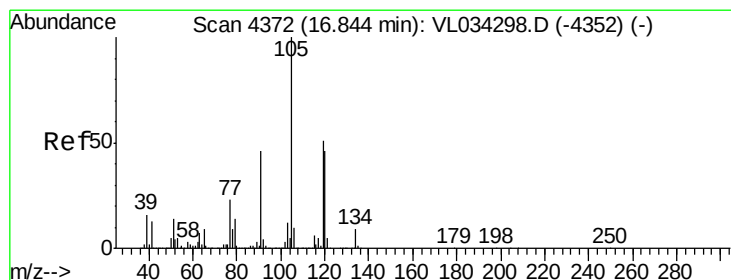
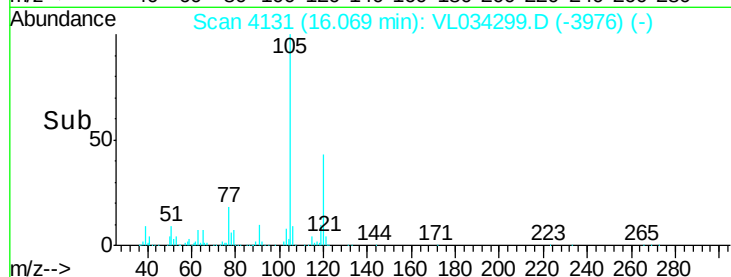
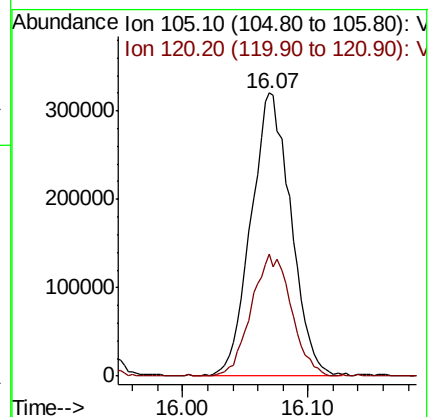
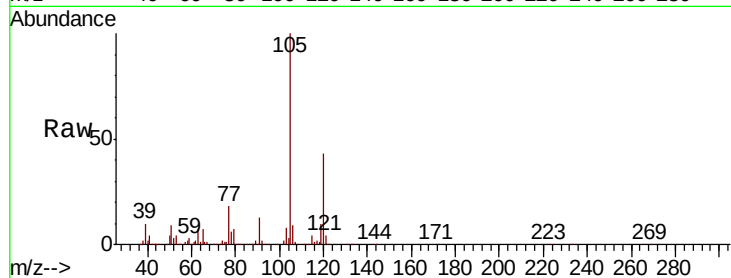
120 43.4 35.2 52.8

Manual Integrations

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#74

1,2,4-Trimethylbenzene

Concen: 2.033 ppbv m

RT: 16.84 min Scan# 4371

Delta R.T. -0.00 min

Lab File: VL034299.D

Acq: 16 Oct 2019 13:33

Tgt Ion:105 Resp: 769664

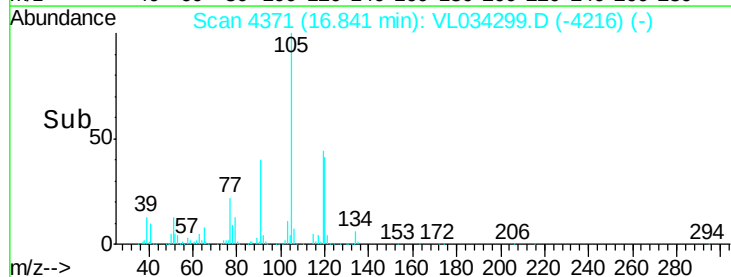
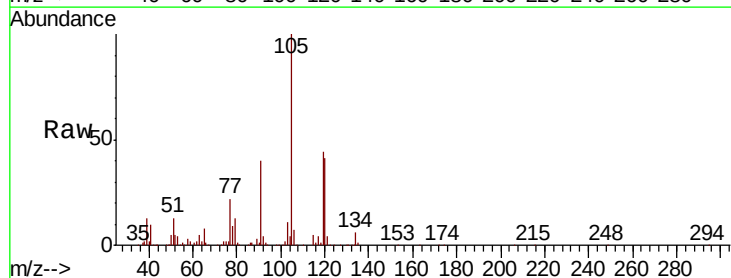
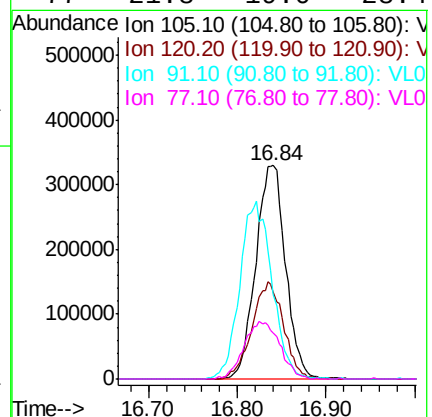
Ion Ratio Lower Upper

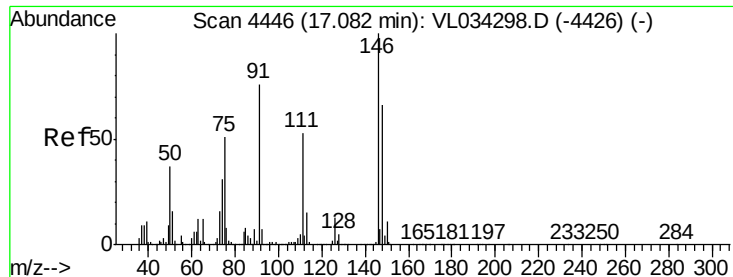
105 100

120 40.9 37.0 55.6

91 39.8 38.2 57.2

77 21.8 19.0 28.4





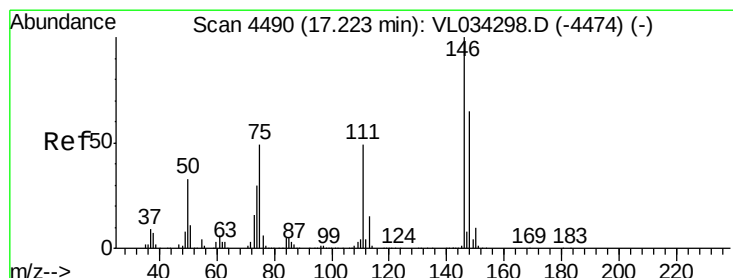
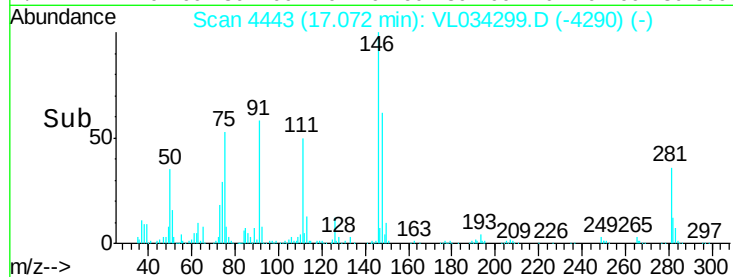
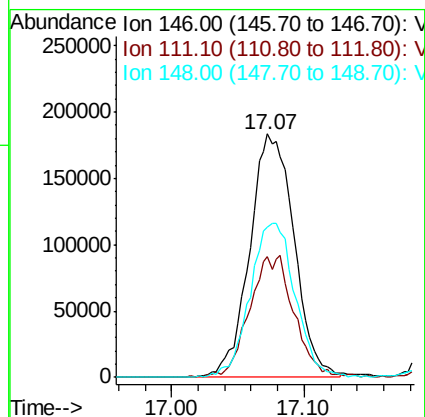
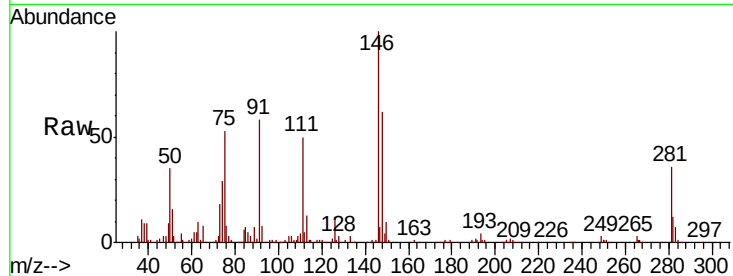
#75
 1,3-Dichlorobenzene
 Concen: 2.098 ppbv
 RT: 17.07 min Scan# 4443
 Delta R.T. -0.01 min
 Lab File: VL034299.D
 Acq: 16 Oct 2019 13:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.8	24.5	73.5
148	64.5	32.3	96.8

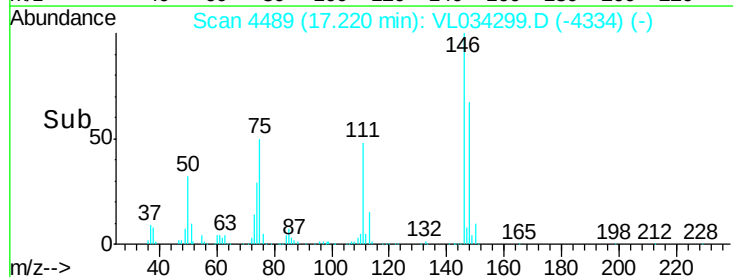
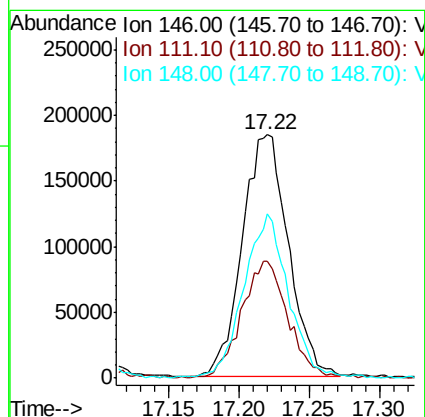
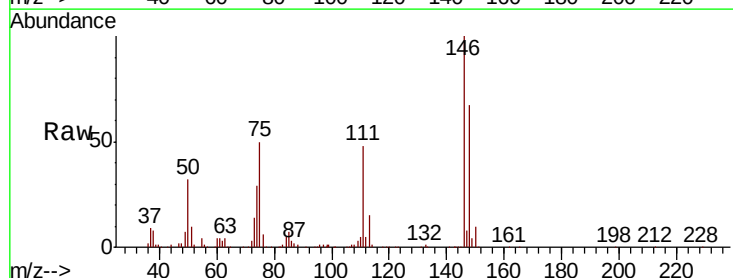
Manual Integrations
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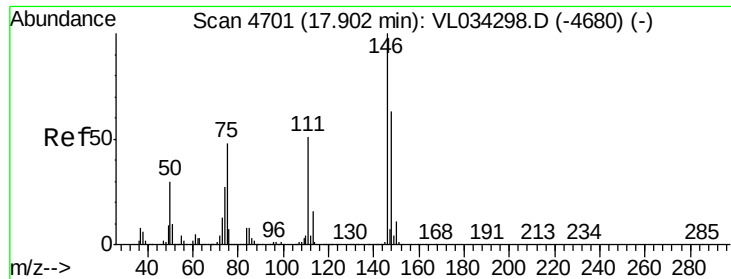
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#76
 1,4-Dichlorobenzene
 Concen: 2.036 ppbv
 RT: 17.22 min Scan# 4489
 Delta R.T. -0.00 min
 Lab File: VL034299.D
 Acq: 16 Oct 2019 13:33

Tgt Ion	Ratio	Lower	Upper
146	100		
111	48.7	23.9	71.7
148	65.5	33.1	99.2





#77

1,2-Dichlorobenzene

Concen: 2.074 ppbv

RT: 17.90 min Scan# 4700

Delta R.T. -0.00 min

Lab File: VL034299.D

Acq: 16 Oct 2019 13:33

Instrument :

MSVOA_L

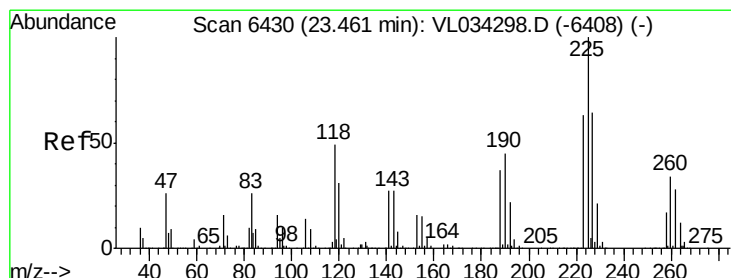
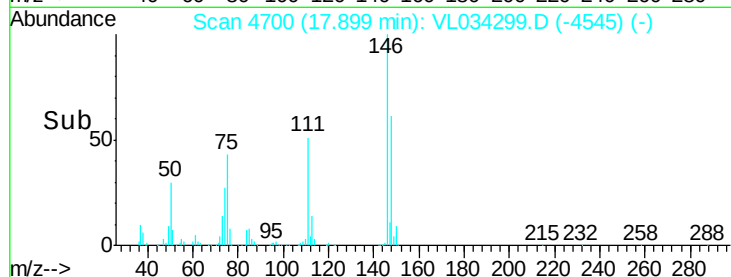
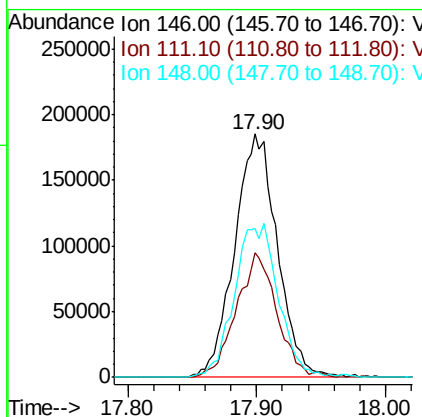
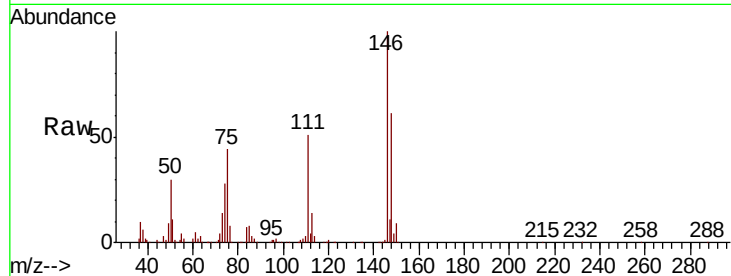
ClientSampleId :

VSTDIC002

Tot Ion:	146	Resp:	426452
Ion Ratio	Lower	Upper	
146	100		
111	49.0	25.1	75.3
148	65.5	32.3	96.8

Manual Integrations
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10/18/2019 3:03:47 PM



#78

Hexachloro-1,3-Butadiene

Concen: 2.624 ppbv

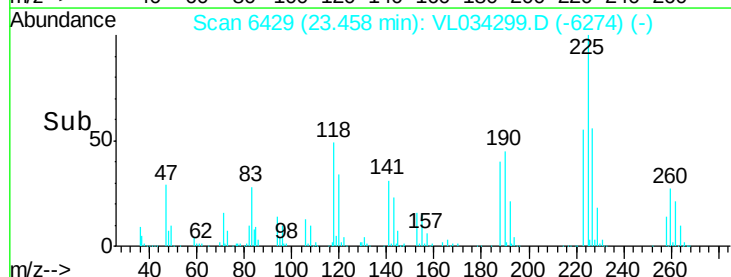
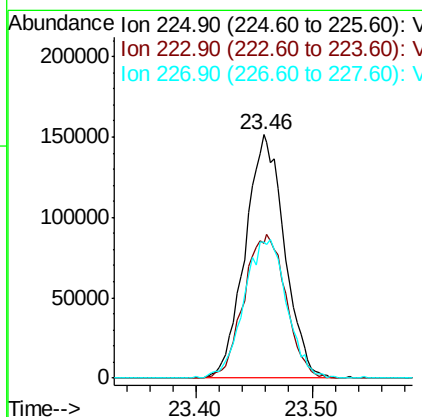
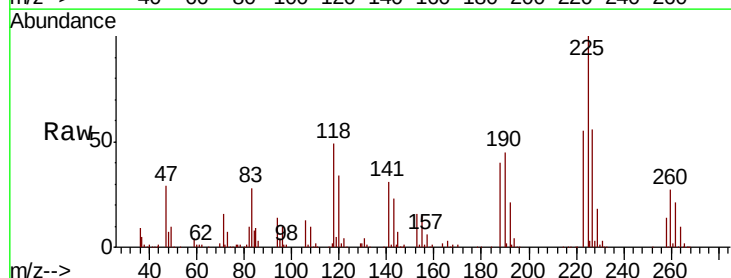
RT: 23.46 min Scan# 6429

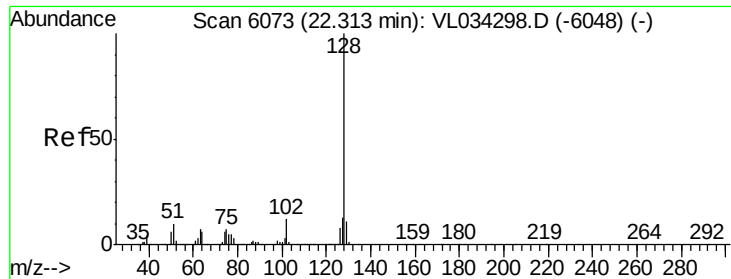
Delta R.T. -0.00 min

Lab File: VL034299.D

Acq: 16 Oct 2019 13:33

Tgt Ion:	225	Resp:	357335
Ion Ratio	Lower	Upper	
225	100		
223	62.5	50.8	76.2
227	61.9	51.5	77.3





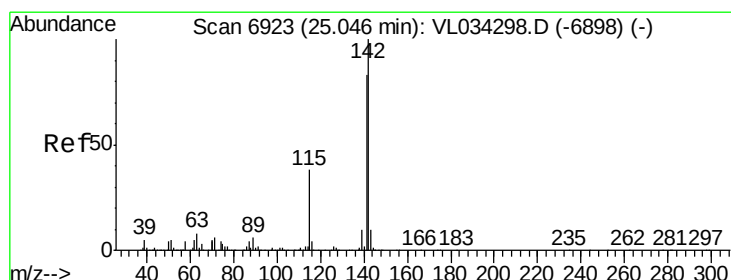
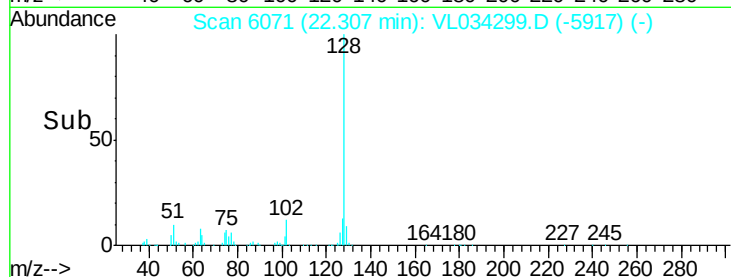
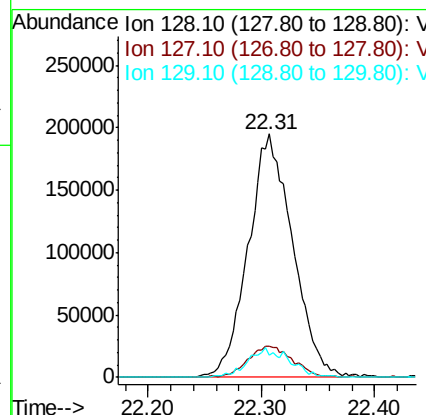
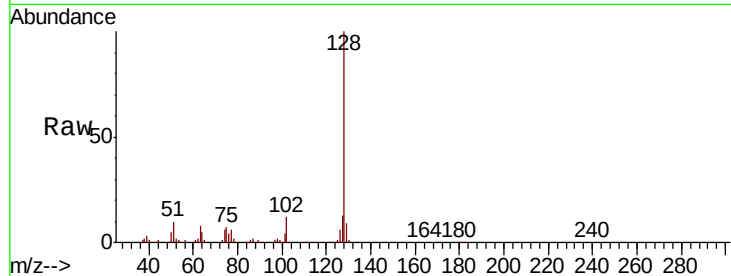
#79
Naphthalene
Concen: 1.590 ppbv
RT: 22.31 min Scan# 6071
Delta R.T. -0.01 min
Lab File: VL034299.D
Acq: 16 Oct 2019 13:33

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.4
129	9.2	8.9	13.3

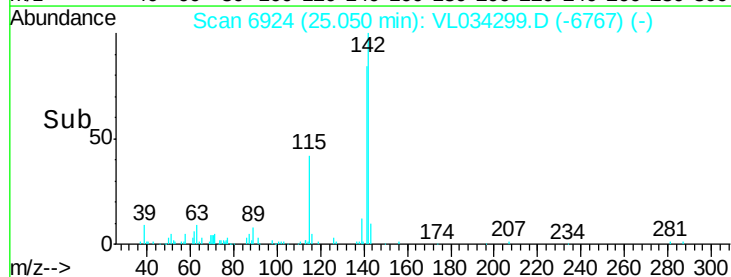
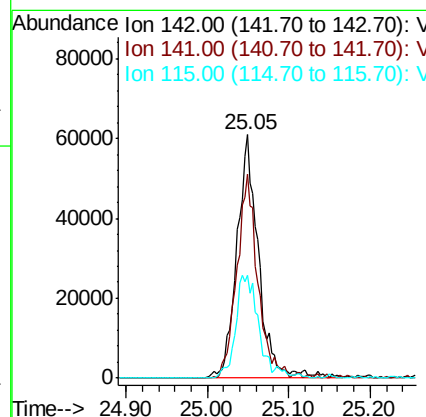
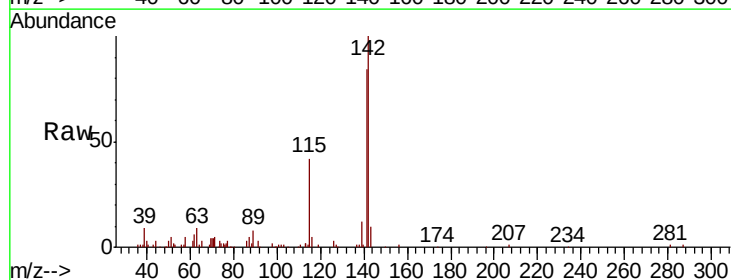
Manual Integrations
APPROVED

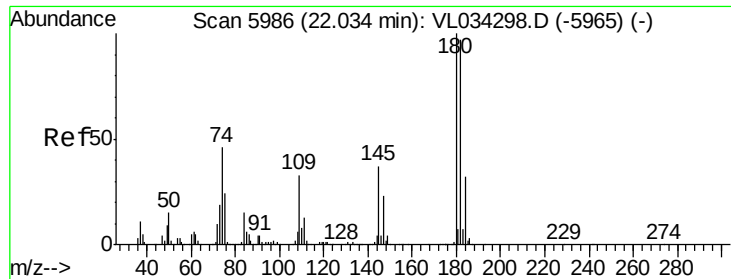
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#80
Naphthalene, 2-methyl-
Concen: 0.734 ppbv
RT: 25.05 min Scan# 6924
Delta R.T. 0.00 min
Lab File: VL034299.D
Acq: 16 Oct 2019 13:33

Tgt Ion	Ratio	Lower	Upper
142	100		
141	81.0	65.7	98.5
115	45.6	30.9	46.3





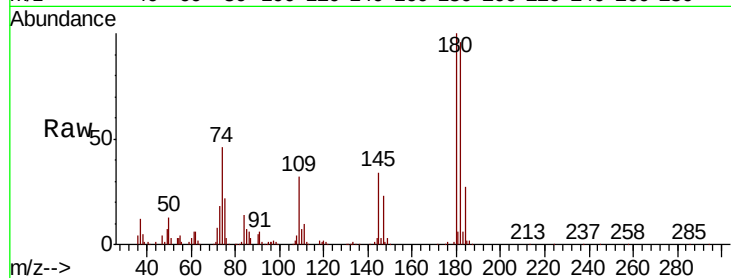
#81
 1,2,4-Trichlorobenzene
 Concen: 1.851 ppbv
 RT: 22.03 min Scan# 5986
 Delta R.T. 0.00 min
 Lab File: VL034299.D
 Acq: 16 Oct 2019 13:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Resp	Lower	Upper
180	100	341814		
182	97.5		77.8	116.8
184	30.3		25.4	38.2

Manual Integrations
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Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

