

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101619\
 Data File : VL034305.D
 Acq On : 16 Oct 2019 18:45
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL101619

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 3:04:18 PM

Quant Time: Oct 17 05:47:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 17 05:47:03 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1159212	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.22	114	2305387	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2509694m	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.50	95	2045986	9.63	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	1544834	7.730	ppbv	100
3) Chlorodifluoromethane	2.97	51	1305144	9.606	ppbv	99
4) Chloromethane	3.12	50	788011	9.805	ppbv	100
5) Vinyl Chloride	3.24	62	721212	9.411	ppbv	98
6) Bromomethane	3.46	94	378478	10.086	ppbv	99
7) Chloroethane	3.55	64	272004	10.085	ppbv	98
8) Dichlorotetrafluoroethane	3.17	85	1613253	9.316	ppbv	98
9) Propene	2.99	41	622155	10.330	ppbv	100
10) Heptane	8.17	43	1604970	10.382	ppbv	99
11) Trichlorofluoromethane	3.95	101	1766057	9.308	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1206032	9.702	ppbv	99
13) Ethanol	3.60	45	128556	9.533	ppbv	98
14) Bromoethene	3.73	108	517525	10.574	ppbv	99
15) Acetone	3.85	43	1349538	8.139	ppbv	99
16) 1,3-Butadiene	3.31	39	686937	10.196	ppbv	99
17) tert-Butyl alcohol	4.29	59	1240950	11.727	ppbv	99
18) 1,1-Dichloroethene	4.29	96	554371	10.186	ppbv	93
19) Isopropyl Alcohol	3.97	45	1051266	11.365	ppbv	100
20) Methylene Chloride	4.35	84	481007	8.025	ppbv	93
21) Allyl Chloride	4.42	41	946306	10.324	ppbv	100
22) trans-1,2-Dichloroethene	4.90	96	552739	10.182	ppbv	100
23) Vinyl Acetate	5.09	43	2194604	10.599	ppbv	99
24) 1,1-Dichloroethane	5.03	63	1519928	9.890	ppbv	99
25) Ethyl Acetate	5.70	43	2713750	9.694	ppbv	100
26) Hexane	5.71	57	1182301	9.909	ppbv	98
27) Carbon Disulfide	4.56	76	1391876	11.237	ppbv	98
28) Methyl tert-Butyl Ether	5.05	73	1910409	10.580	ppbv	100
29) Chloroform	5.79	83	1822659	9.657	ppbv	96
30) Cyclohexane	7.17	84	933945	10.644	ppbv	97
31) cis-1,2-Dichloroethene	5.57	61	1257229	10.383	ppbv	99
32) 1,1,1-Trichloroethane	6.55	97	1806504	9.843	ppbv	100
34) 2-Butanone	5.27	43	1852694	9.832	ppbv	100
35) Carbon Tetrachloride	7.06	117	1879661	9.361	ppbv	97
36) Benzene	6.94	78	2198578	9.940	ppbv	99
37) 1,2-Dichloroethane	6.35	62	1561898	9.475	ppbv	99
38) Trichloroethene	7.89	130	848140	9.555	ppbv	95
39) 1,2-Dichloropropane	7.66	63	940761	9.877	ppbv	98
40) 1,4-Dioxane	7.88	88	352423	10.529	ppbv #	1
41) Tetrahydrofuran	6.08	42	1093320	10.455	ppbv	100
42) Bromodichloromethane	7.84	83	2017752	9.993	ppbv	94
43) Methyl Methacrylate	8.07	69	968827	10.590	ppbv	96

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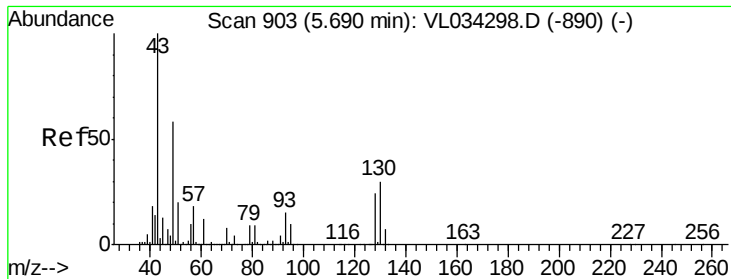
Manual Integrations
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Quant Time: Oct 17 05:47:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 17 05:47:03 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.92	57	3935084	9.612	ppbv	99
45) t-1,3-Dichloropropene	9.34	75	1293484	11.605	ppbv	100
46) cis-1,3-Dichloropropene	8.76	75	1447298	11.302	ppbv	99
47) 1,1,2-Trichloroethane	9.54	97	925615	9.594	ppbv	97
48) Dibromochloromethane	10.37	129	1652860	10.444	ppbv	98
49) Bromoform	13.12	173	1459511	10.408	ppbv	99
50) 4-Methyl-2-Pentanone	8.80	43	2717097	10.072	ppbv	99
51) 2-Hexanone	10.19	43	2325468	10.516	ppbv	100
52) Tetrachloroethene	11.30	164	816233	9.414	ppbv	96
53) Toluene	9.87	91	2540122	10.406	ppbv	100
54) 1,2-Dibromoethane	10.69	107	1388094	9.708	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.20	131	1080205	9.340	ppbv	97
57) Chlorobenzene	12.22	112	1904062	9.094	ppbv	99
58) Ethyl Benzene	12.79	91	3434045	9.788	ppbv	98
59) m/p-Xylene	13.07	91	5693369m	18.730	ppbv	
60) o-Xylene	13.77	91	2838167	9.377	ppbv	100
61) Styrene	13.61	104	2135070	10.019	ppbv	99
62) Isopropylbenzene	14.75	105	3691089	9.238	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.76	83	1957314	8.047	ppbv	100
64) n-propylbenzene	15.65	120	977895	9.537	ppbv	97
65) tert-Butylbenzene	16.84	119	3218752	9.089	ppbv	99
66) Benzyl Chloride	17.08	91	1550399	11.085	ppbv	100
67) sec-Butylbenzene	17.38	105	4468598	8.967	ppbv	100
69) p-Isopropyltoluene	17.74	119	3702206	9.112	ppbv	100
70) n-Butylbenzene	18.64	91	3962668	8.964	ppbv	100
71) 2-Chlorotoluene	15.55	91	2937041	9.480	ppbv	100
72) 4-Ethyltoluene	15.92	105	3223461	9.474	ppbv	99
73) 1,3,5-Trimethylbenzene	16.09	105	3093053	9.175	ppbv	96
74) 1,2,4-Trimethylbenzene	16.85	105	3168541	9.013	ppbv	99
75) 1,3-Dichlorobenzene	17.09	146	1818565	8.616	ppbv	100
76) 1,4-Dichlorobenzene	17.23	146	1825021	8.852	ppbv	99
77) 1,2-Dichlorobenzene	17.91	146	1756175	8.486	ppbv	99
78) Hexachloro-1,3-Butadiene	23.47	225	1493795	8.727	ppbv	99
79) Naphthalene	22.32	128	3087841	12.024	ppbv	98
80) Naphthalene, 2-methyl-	25.05	142	943033	12.704	ppbv	98
81) 1,2,4-Trichlorobenzene	22.05	180	1803016	10.749	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

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MSVOA_L

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ICVVL101619

Tot Ion: 49 Resp: 1159212

Ion Ratio Lower Upper

49 100

128 42.2 20.6 61.8

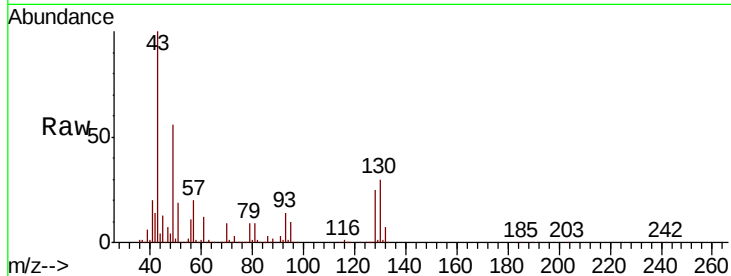
130 52.8 26.2 78.5

Manual Integrations

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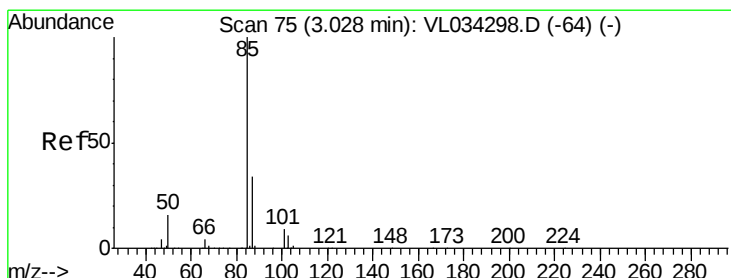
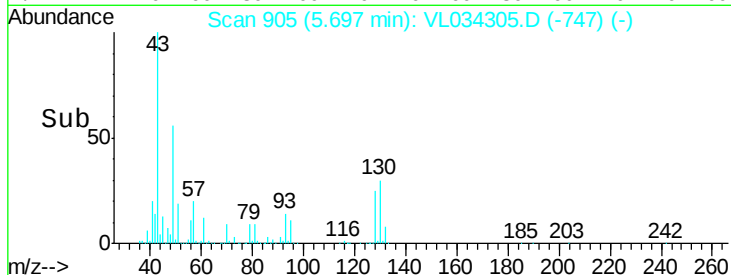
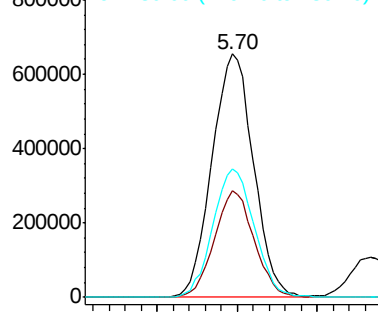
10/18/2019 3:04:18 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 7.730 ppbv

RT: 3.03 min Scan# 76

Delta R.T. 0.00 min

Lab File: VL034305.D

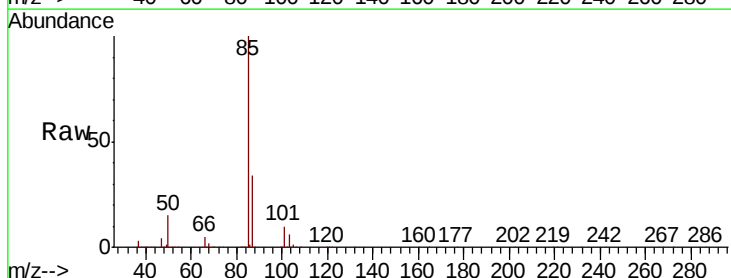
Acq: 16 Oct 2019 18:45

Tgt Ion: 85 Resp: 1544834

Ion Ratio Lower Upper

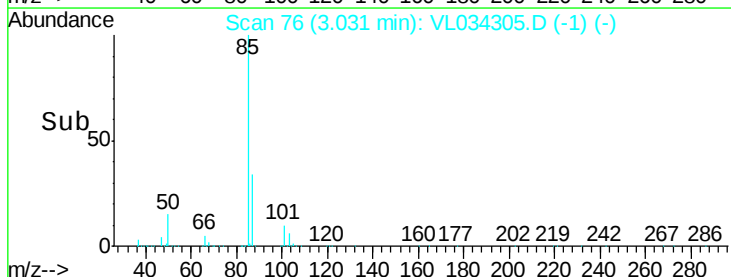
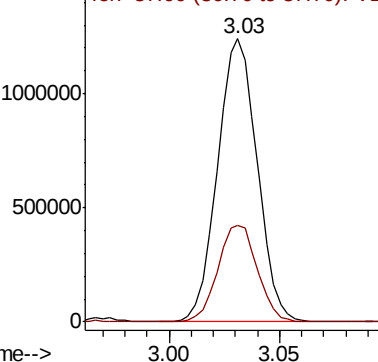
85 100

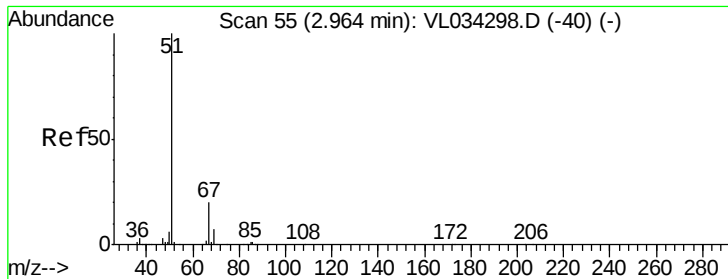
87 34.1 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

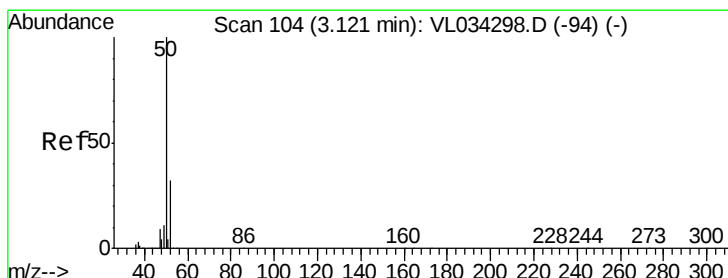
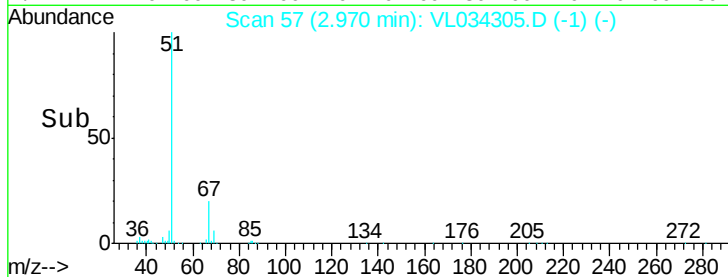
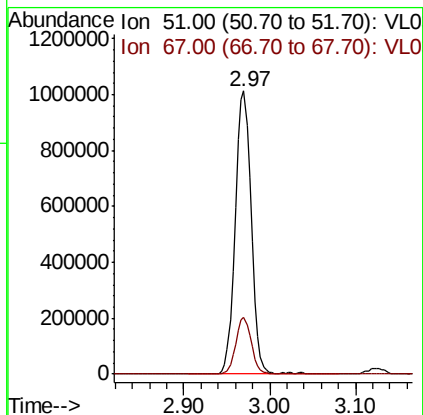
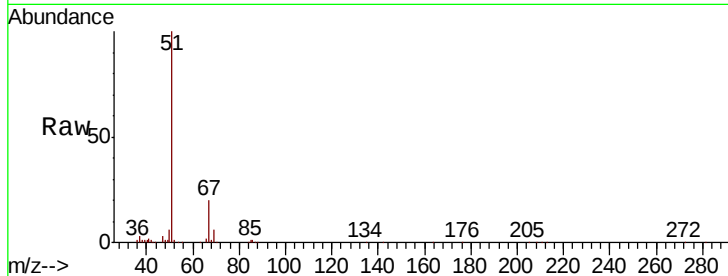
Chlorodifluoromethane
 Concen: 9.606 ppbv
 RT: 2.97 min Scan# 57
 Delta R.T. 0.01 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

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 MSVOA_L
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 ICVVL101619

Tot Ion: 51 Resp: 1305144
 Ion Ratio Lower Upper
 51 100
 67 19.3 15.8 23.8

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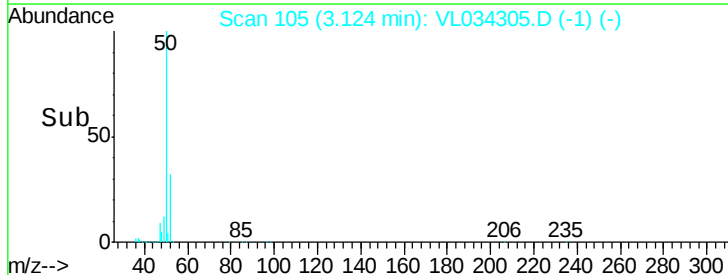
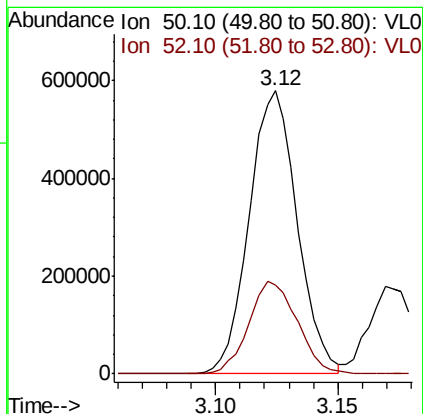
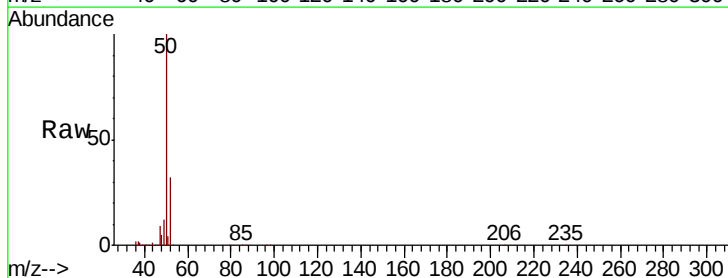
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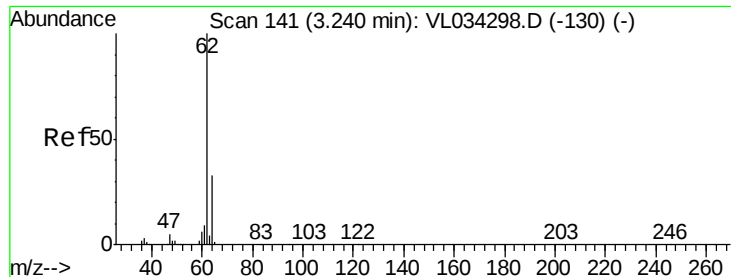


#4

Chloromethane
 Concen: 9.805 ppbv
 RT: 3.12 min Scan# 105
 Delta R.T. 0.00 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

Tgt Ion: 50 Resp: 788011
 Ion Ratio Lower Upper
 50 100
 52 31.6 25.4 38.2





#5

Vinyl Chloride

Concen: 9.411 ppbv

RT: 3.24 min Scan# 142

Delta R.T. 0.00 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101619

Tot Ion: 62 Resp: 721212

Ion Ratio Lower Upper

62 100

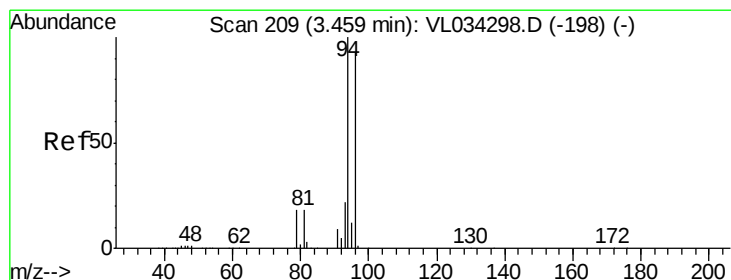
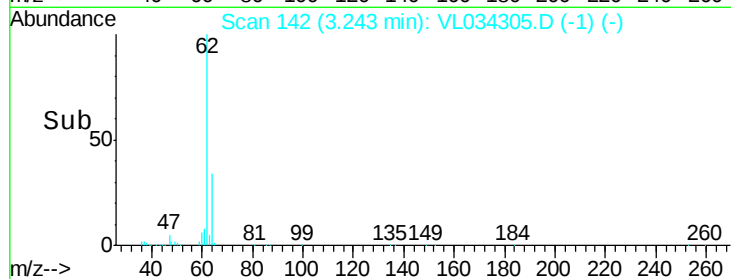
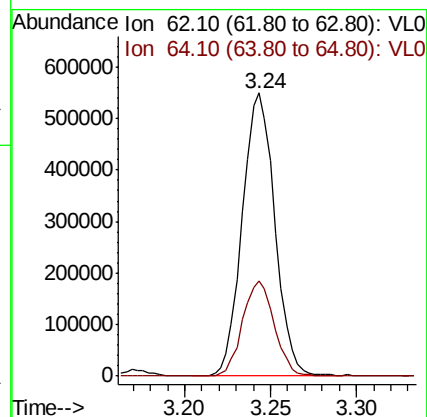
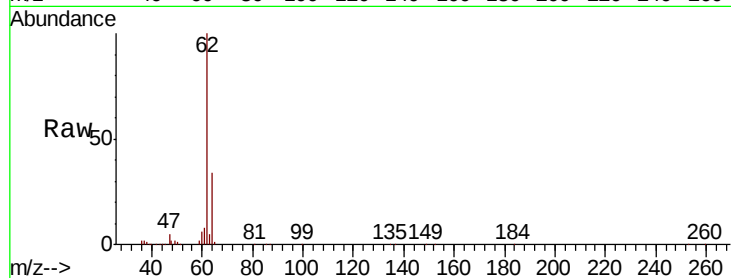
64 33.6 26.0 39.0

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10/18/2019 3:04:18 PM



#6

Bromomethane

Concen: 10.086 ppbv

RT: 3.46 min Scan# 210

Delta R.T. 0.00 min

Lab File: VL034305.D

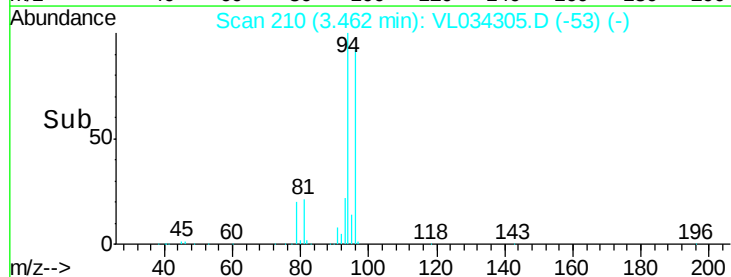
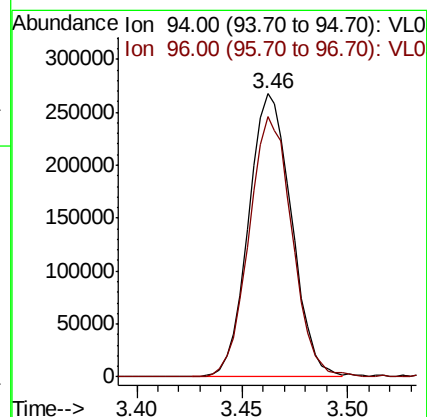
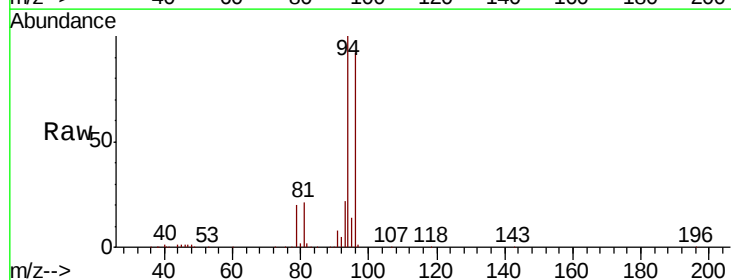
Acq: 16 Oct 2019 18:45

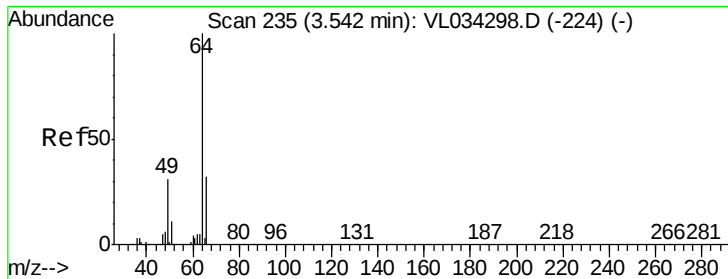
Tgt Ion: 94 Resp: 378478

Ion Ratio Lower Upper

94 100

96 92.1 74.6 112.0





#7

Chloroethane

Concen: 10.085 ppbv

RT: 3.55 min Scan# 236

Delta R.T. 0.00 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101619

Tot Ion: 64 Resp: 272004

Ion Ratio Lower Upper

64 100

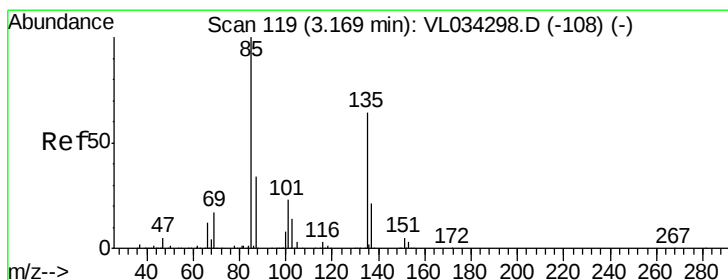
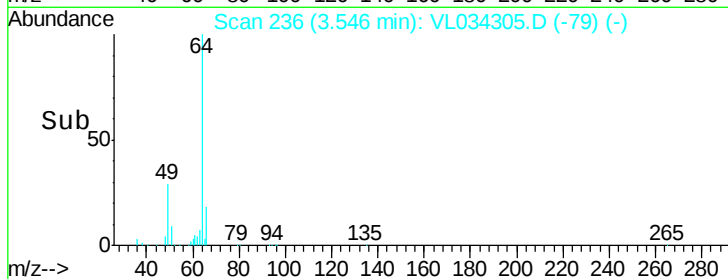
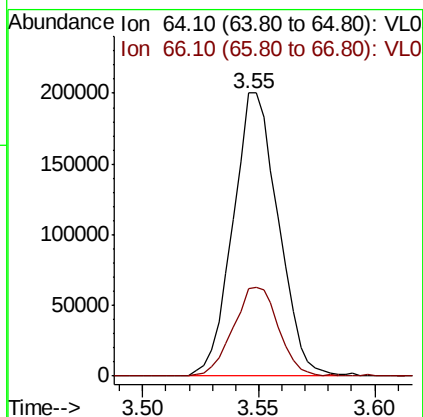
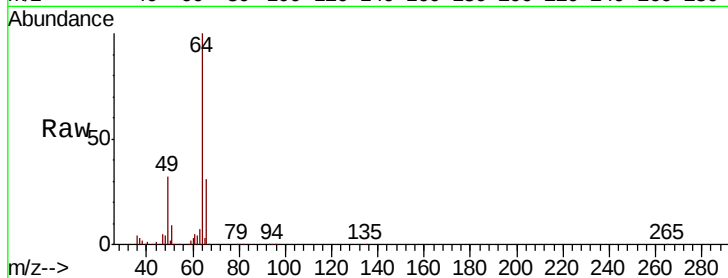
66 30.8 25.4 38.0

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#8

Dichlorotetrafluoroethane

Concen: 9.316 ppbv

RT: 3.17 min Scan# 120

Delta R.T. 0.00 min

Lab File: VL034305.D

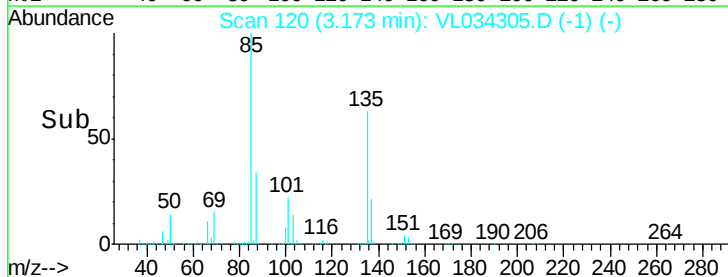
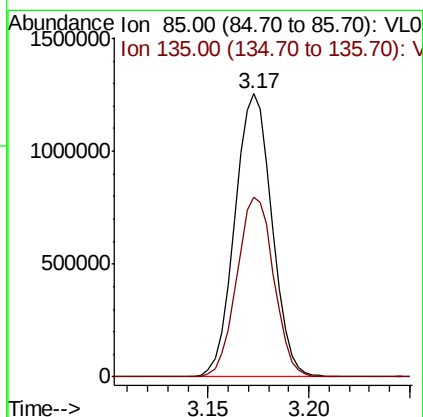
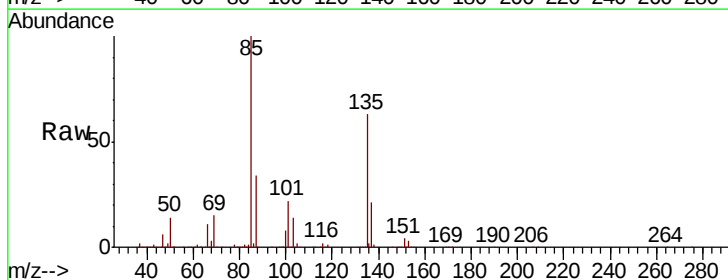
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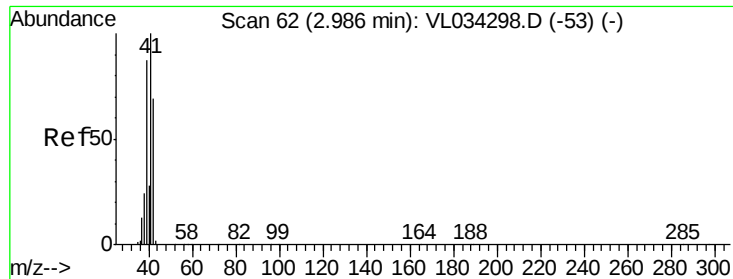
Tgt Ion: 85 Resp: 1613253

Ion Ratio Lower Upper

85 100

135 63.9 50.2 75.2





#9

Propene

Concen: 10.330 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101619

Tot Ion: 41 Resp: 622155

Ion Ratio Lower Upper

41 100

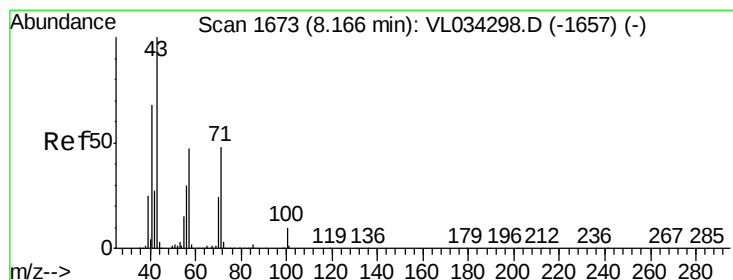
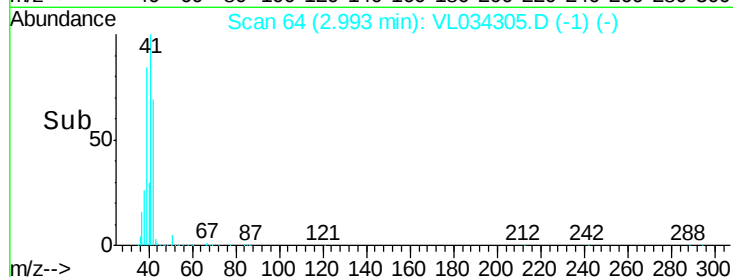
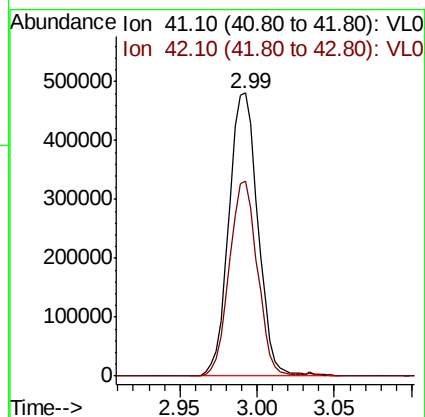
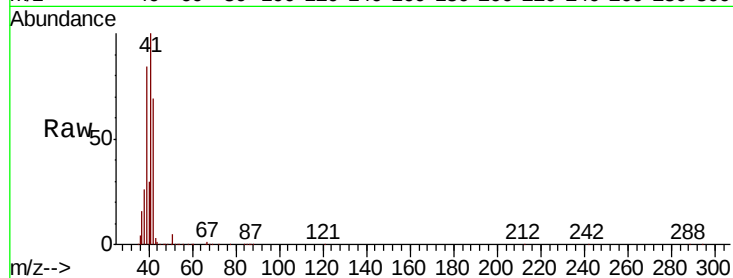
42 67.3 53.9 80.9

Manual Integrations

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10/18/2019 3:04:18 PM



#10

Heptane

Concen: 10.382 ppbv

RT: 8.17 min Scan# 1675

Delta R.T. 0.01 min

Lab File: VL034305.D

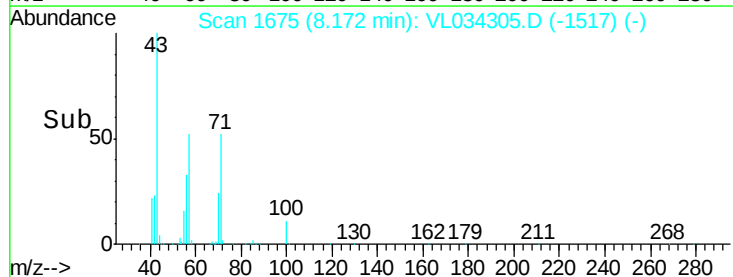
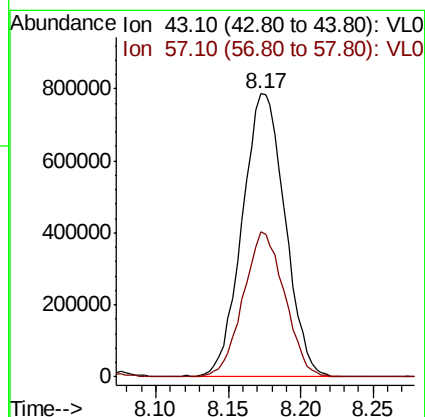
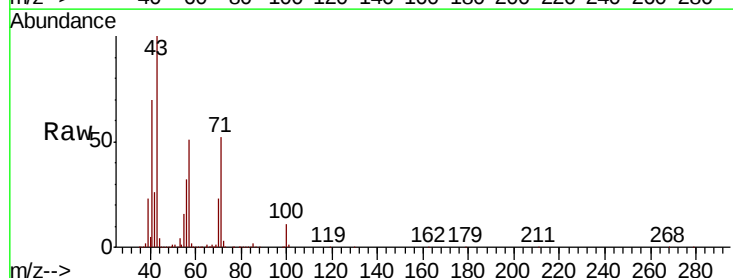
Acq: 16 Oct 2019 18:45

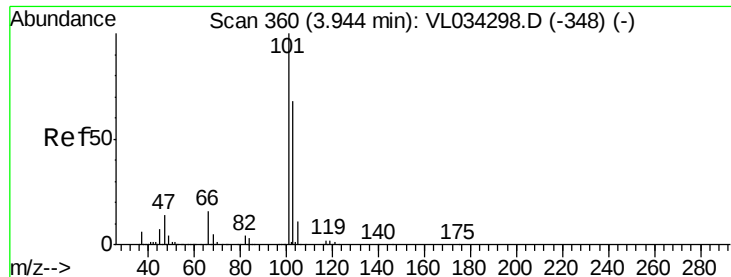
Tgt Ion: 43 Resp: 1604970

Ion Ratio Lower Upper

43 100

57 50.2 39.5 59.3





#11

Trichlorofluoromethane

Concen: 9.308 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101619

Tot Ion:101 Resp: 1766057

Ion Ratio Lower Upper

101 100

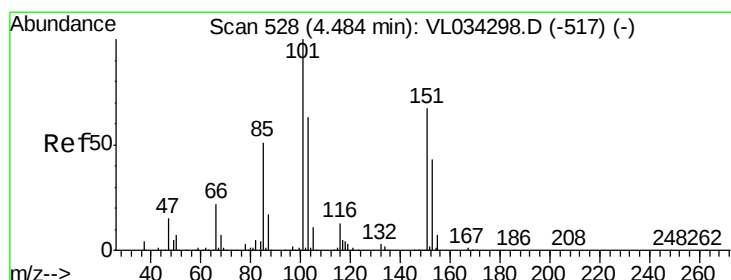
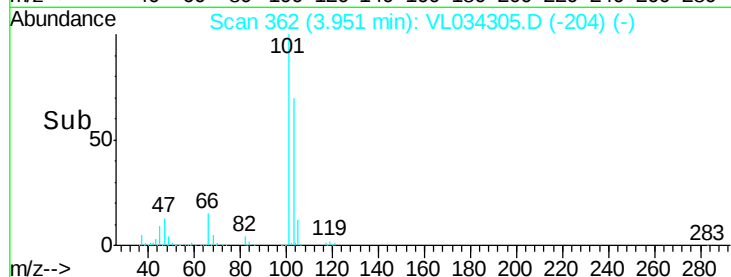
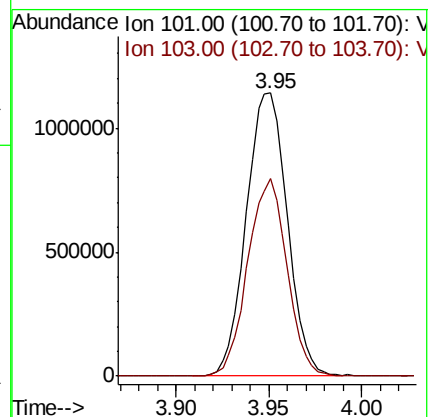
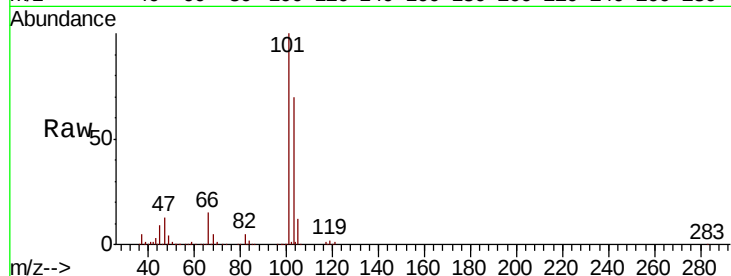
103 69.8 54.5 81.7

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.702 ppbv

RT: 4.49 min Scan# 531

Delta R.T. 0.01 min

Lab File: VL034305.D

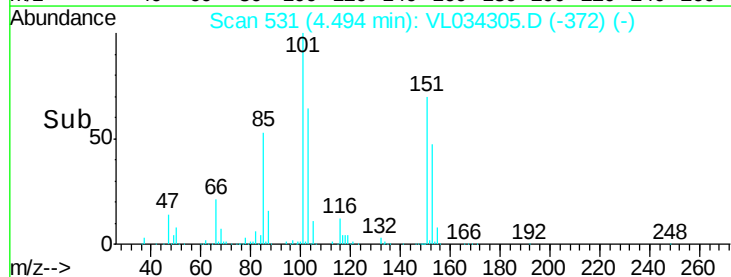
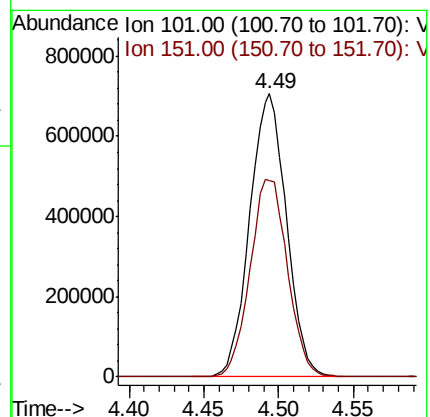
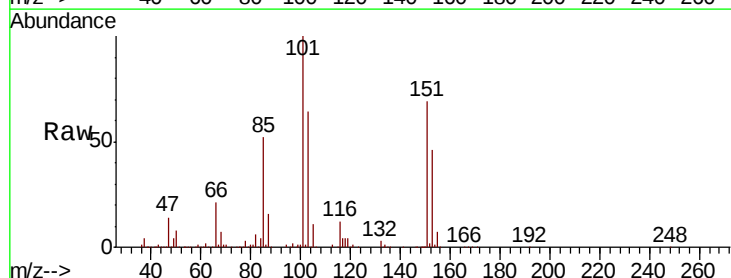
Acq: 16 Oct 2019 18:45

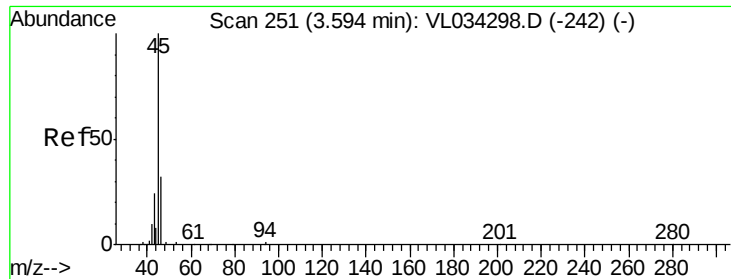
Tgt Ion:101 Resp: 1206032

Ion Ratio Lower Upper

101 100

151 71.3 57.4 86.2





#13

Ethanol

Concen: 9.533 ppbv

RT: 3.60 min Scan# 253

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101619

Tot Ion: 45 Resp: 128556

Ion Ratio Lower Upper

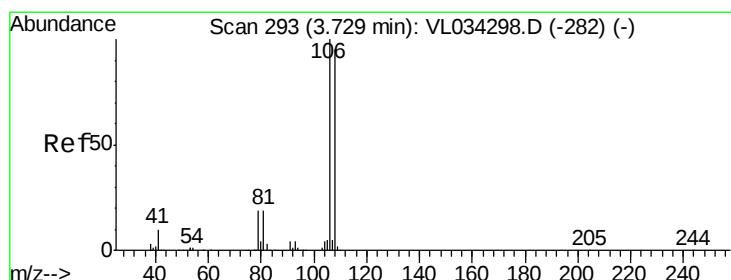
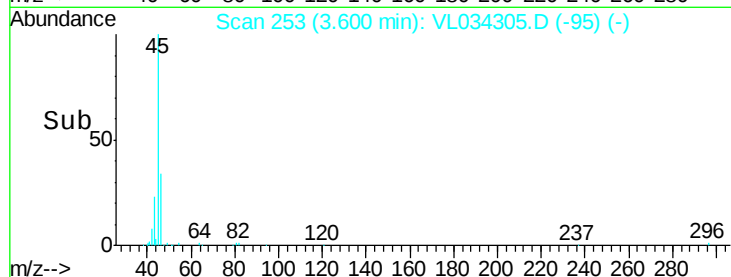
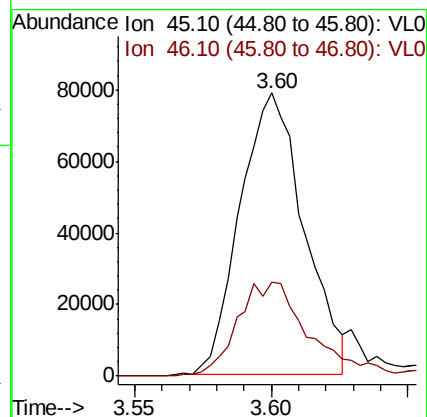
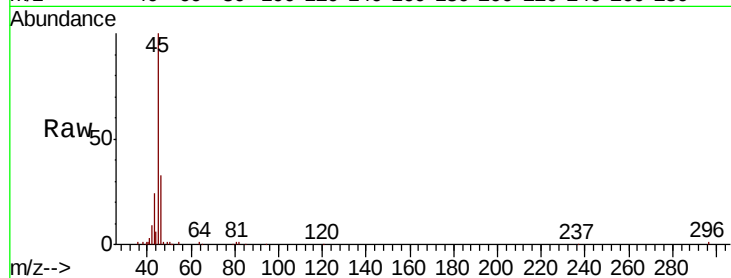
45 100

46 38.5 15.8 63.2

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#14

Bromoethene

Concen: 10.574 ppbv

RT: 3.73 min Scan# 294

Delta R.T. 0.00 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

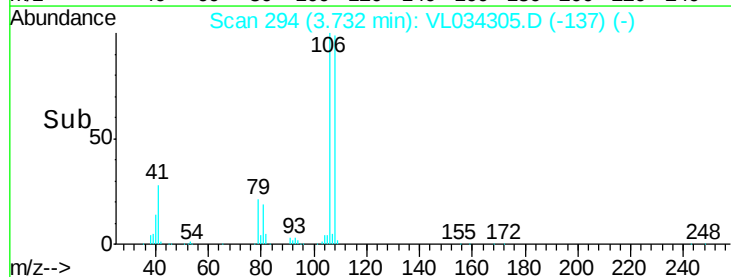
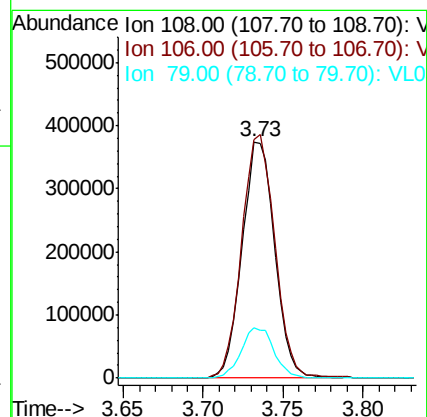
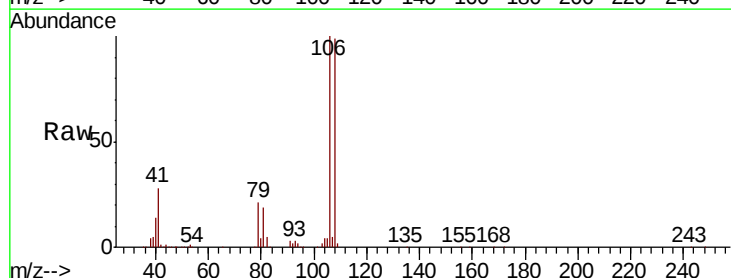
Tgt Ion: 108 Resp: 517525

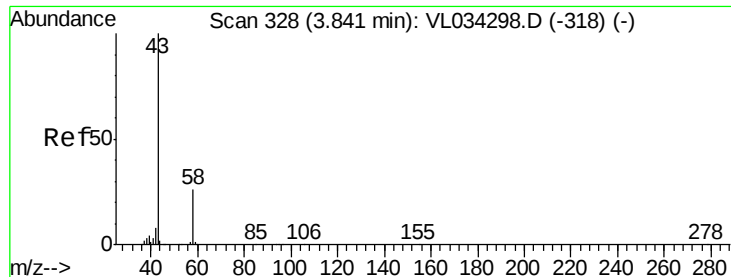
Ion Ratio Lower Upper

108 100

106 104.5 84.8 127.2

79 21.9 17.0 25.4





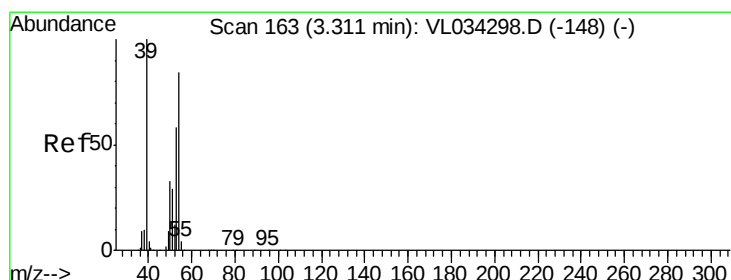
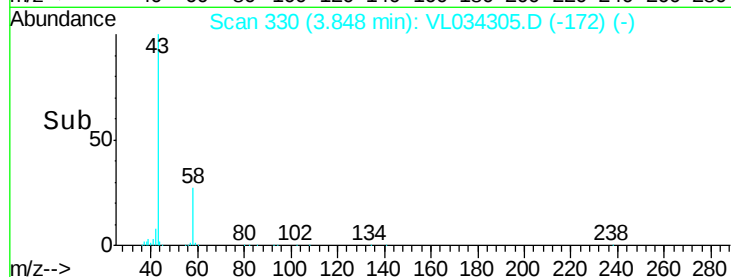
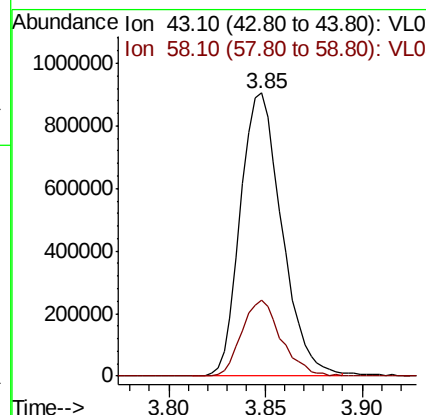
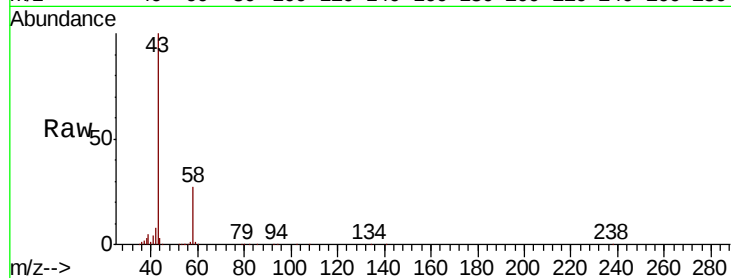
#15
Acetone
Concen: 8.139 ppbv
RT: 3.85 min Scan# 330
Delta R.T. 0.01 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101619

Tot Ion: 43 Resp: 1349538
Ion Ratio Lower Upper
43 100
58 25.8 20.4 30.6

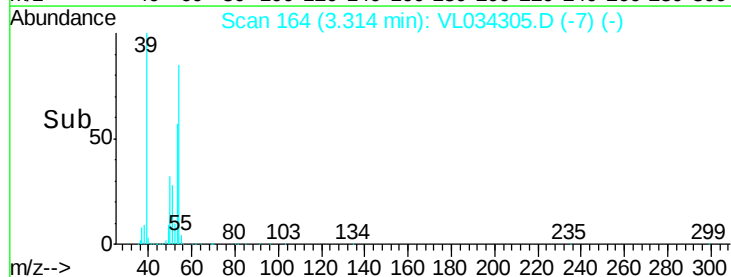
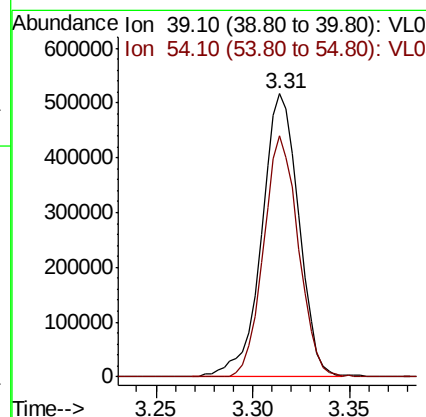
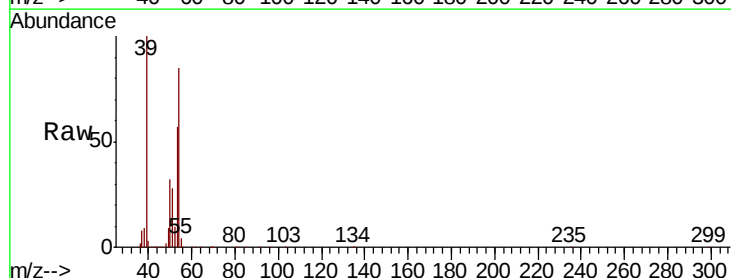
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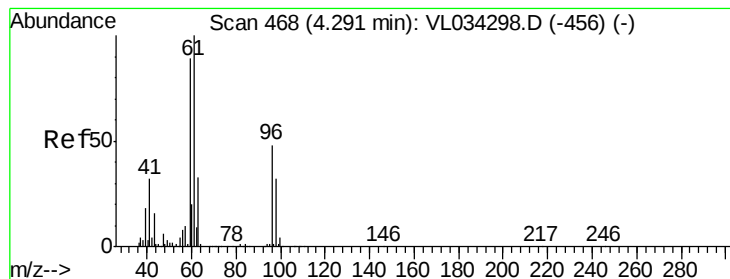
MMDadoda
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#16
1,3-Butadiene
Concen: 10.196 ppbv
RT: 3.31 min Scan# 164
Delta R.T. 0.00 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

Tgt Ion: 39 Resp: 686937
Ion Ratio Lower Upper
39 100
54 80.5 63.9 95.9





#17

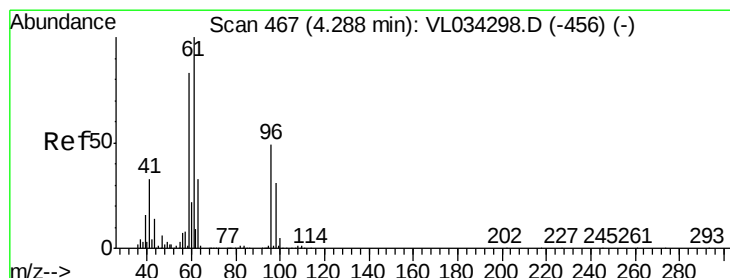
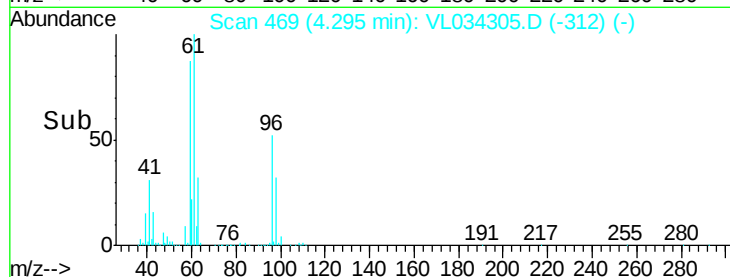
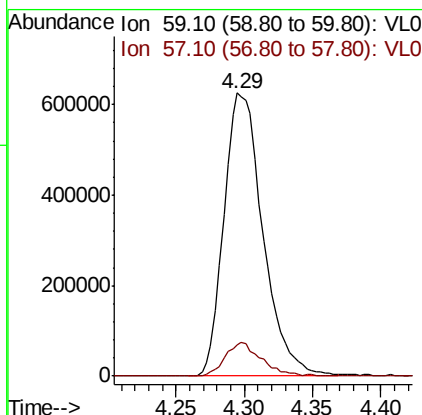
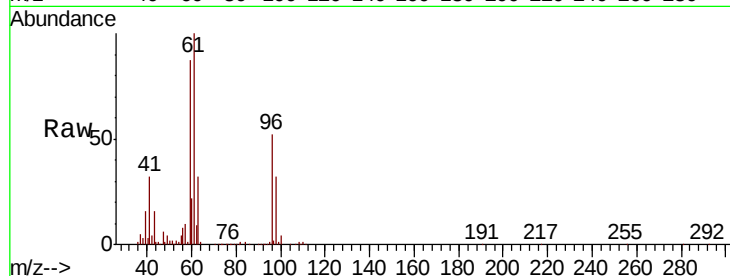
tert-Butyl alcohol
 Concen: 11.727 ppbv
 RT: 4.29 min Scan# 469
 Delta R.T. 0.00 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101619

Tot Ion: 59 Resp: 1240950
 Ion Ratio Lower Upper
 59 100
 57 11.2 8.8 13.2

Manual Integrations
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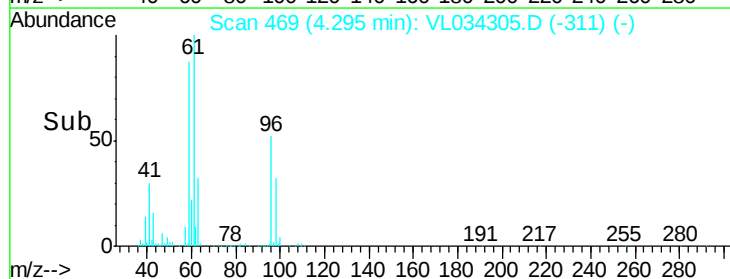
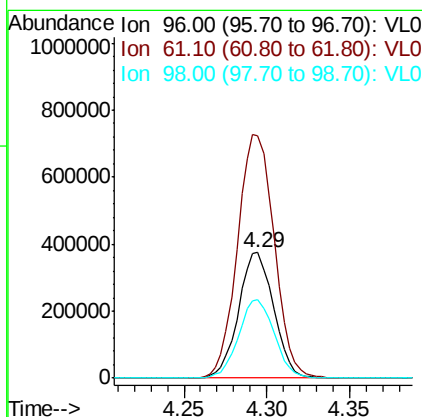
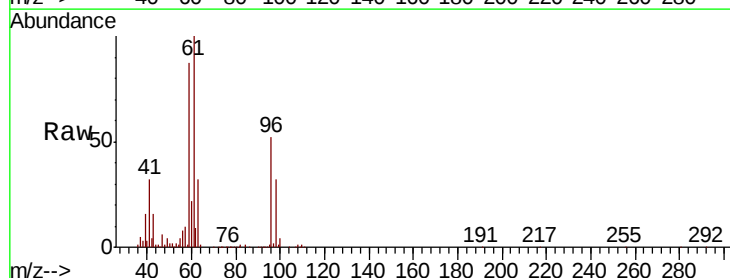
MMDadoda
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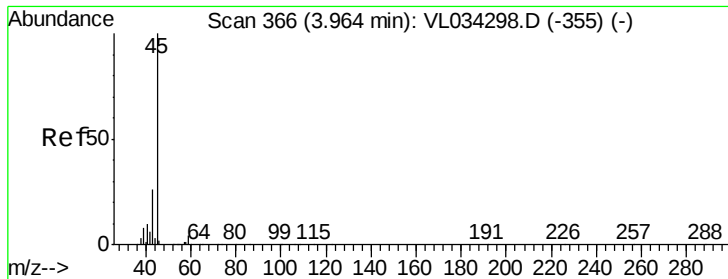


#18

1,1-Dichloroethene
 Concen: 10.186 ppbv
 RT: 4.29 min Scan# 469
 Delta R.T. 0.01 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

Tgt Ion: 96 Resp: 554371
 Ion Ratio Lower Upper
 96 100
 61 192.4 164.5 246.7
 98 62.3 51.7 77.5





#19

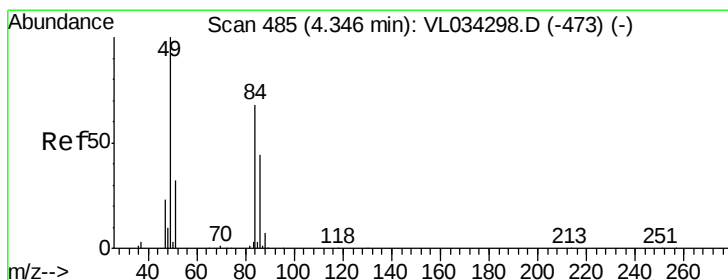
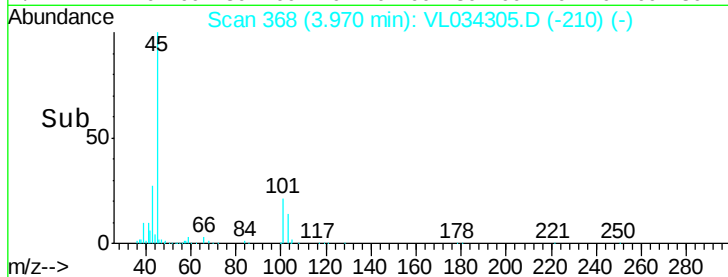
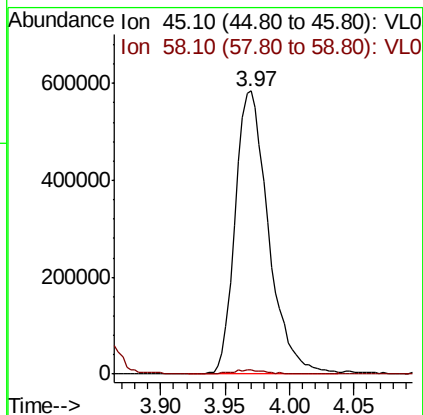
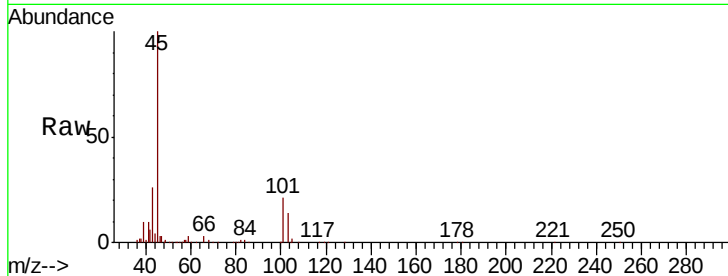
Isopropyl Alcohol
 Concen: 11.365 ppbv
 RT: 3.97 min Scan# 368
 Delta R.T. 0.01 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101619

Tot Ion: 45 Resp: 1051266
 Ion Ratio Lower Upper
 45 100
 58 1.9 1.4 2.2

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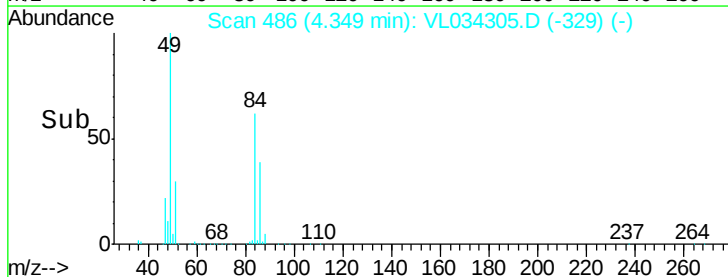
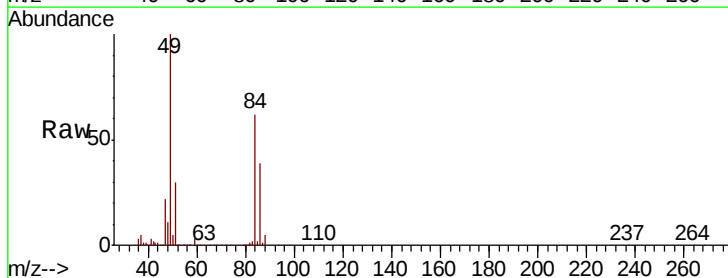
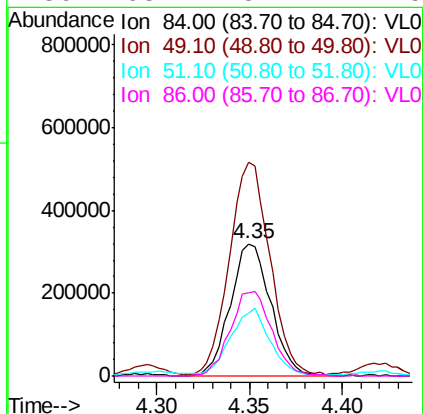
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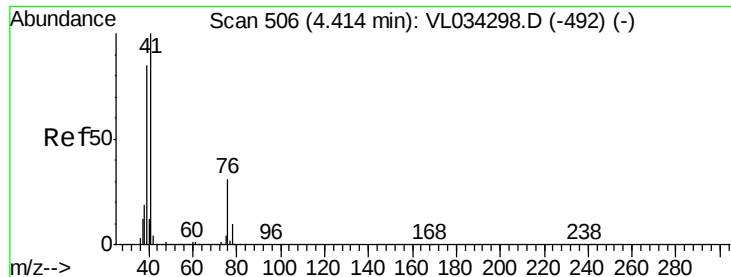


#20

Methylene Chloride
 Concen: 8.025 ppbv
 RT: 4.35 min Scan# 486
 Delta R.T. 0.00 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

Tgt Ion: 84 Resp: 481007
 Ion Ratio Lower Upper
 84 100
 49 160.7 118.5 177.7
 51 46.8 38.8 58.2
 86 63.2 51.7 77.5





#21

Allvl Chloride

Concen: 10.324 ppbv

RT: 4.42 min Scan# 508

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

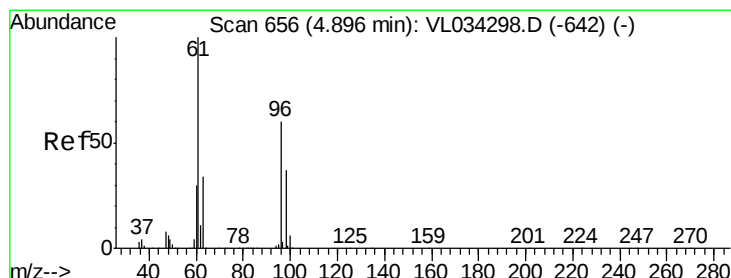
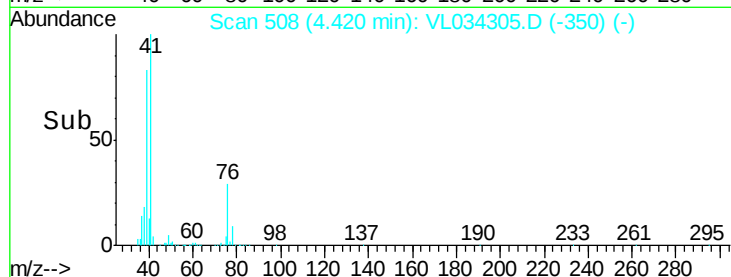
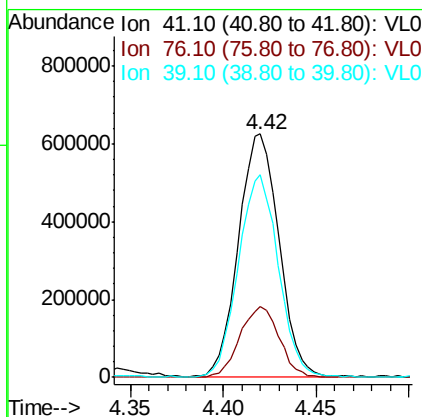
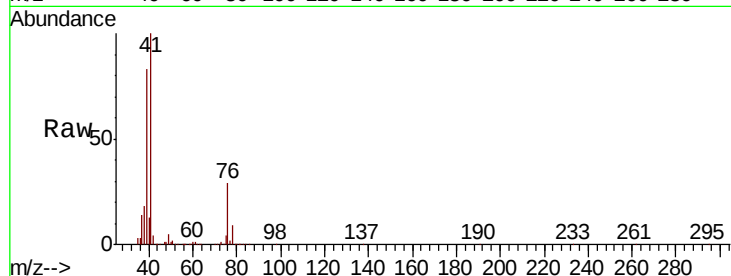
ClientSampleId :

ICVVL101619

Tot Ion:	41	Resp:	946306
Ion Ratio		Lower	Upper
41	100		
76	28.5	22.8	34.2
39	82.7	66.0	99.0

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#22

trans-1,2-Dichloroethene

Concen: 10.182 ppbv

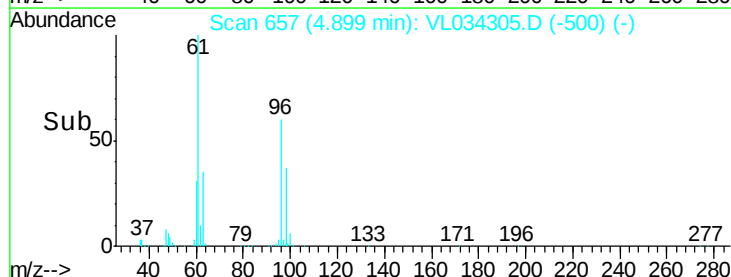
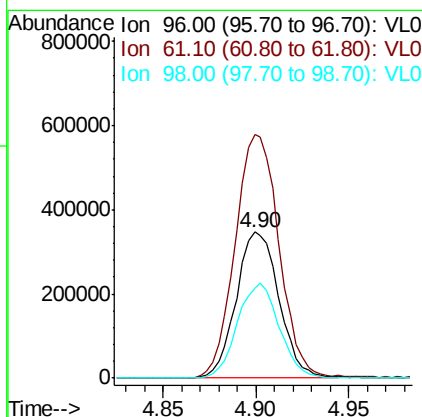
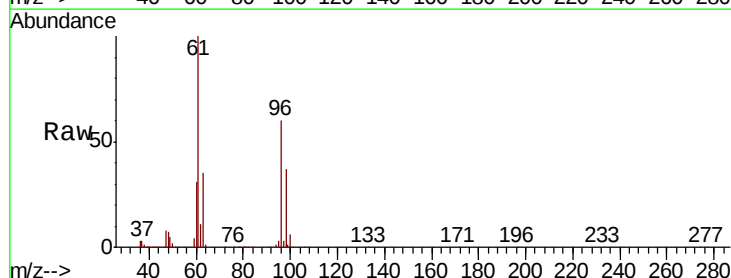
RT: 4.90 min Scan# 657

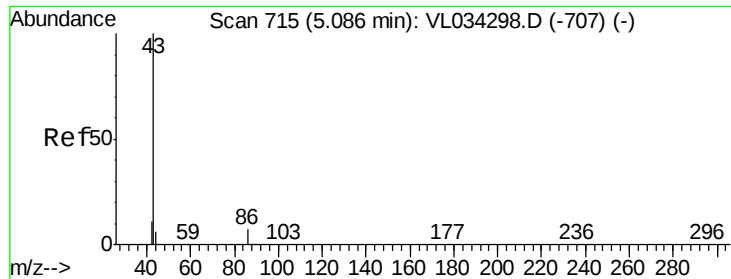
Delta R.T. 0.00 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Tgt Ion:	96	Resp:	552739
Ion Ratio		Lower	Upper
96	100		
61	166.7	133.8	200.6
98	61.7	49.4	74.0





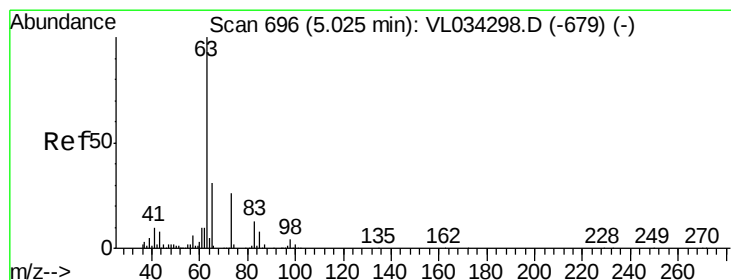
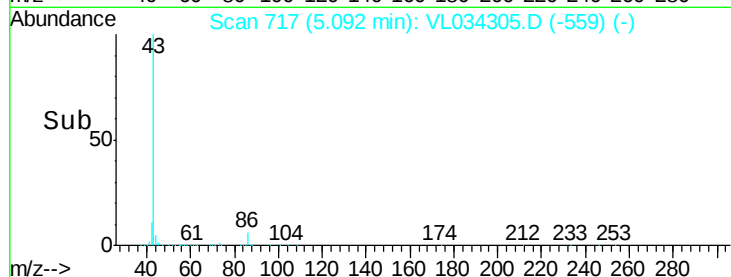
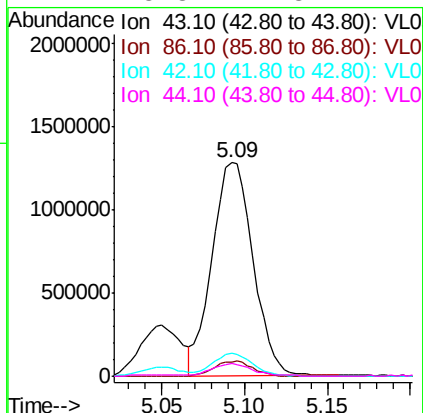
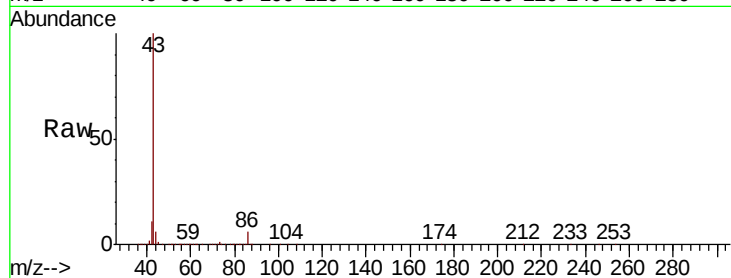
#23
 Vinyl Acetate
 Concen: 10.599 ppbv
 RT: 5.09 min Scan# 717
 Delta R.T. 0.01 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101619

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
86	6.4	5.0	7.4	
42	11.0	8.6	13.0	
44	5.8	4.8	7.2	

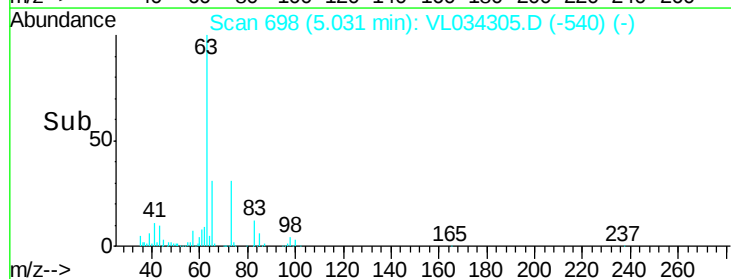
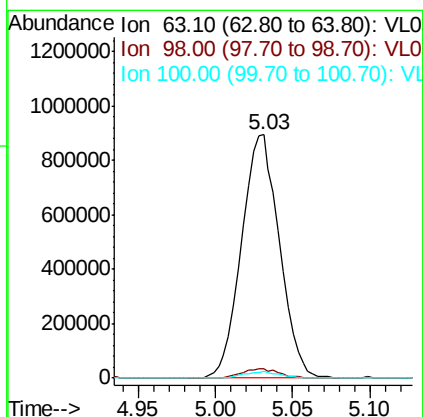
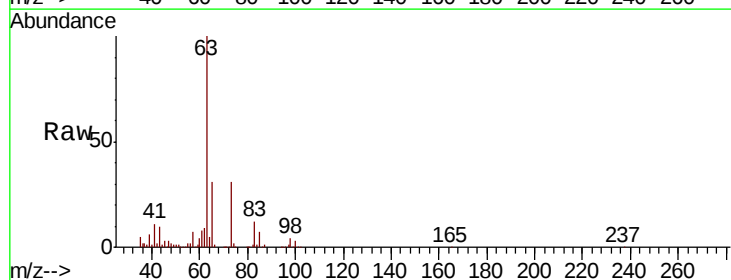
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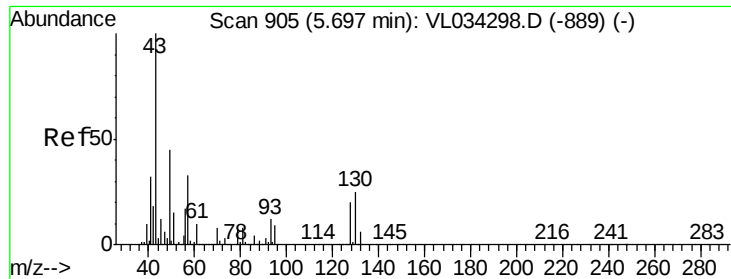
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#24
 1,1-Dichloroethane
 Concen: 9.890 ppbv
 RT: 5.03 min Scan# 698
 Delta R.T. 0.01 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

Tgt Ion	Ion	Ratio	Lower	Upper
63	100			
98	3.8	2.0	6.0	
100	3.0	1.1	3.5	





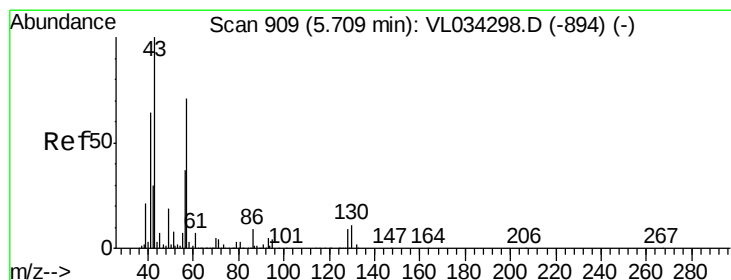
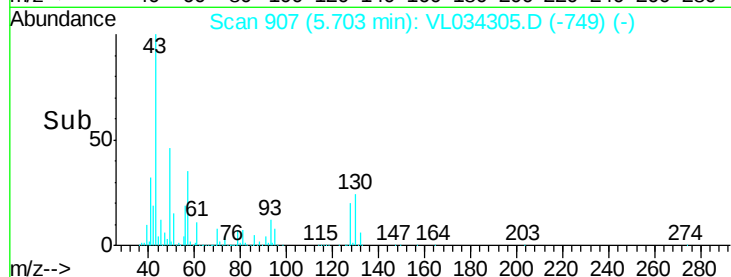
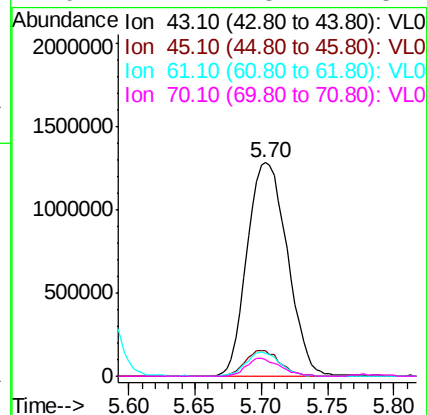
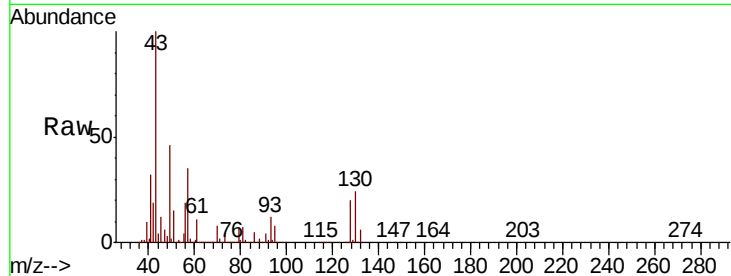
#25
Ethyl Acetate
Concen: 9.694 ppbv
RT: 5.70 min Scan# 907
Delta R.T. 0.01 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101619

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.5	8.3	12.5	
61	9.5	7.7	11.5	
70	7.1	5.4	8.2	

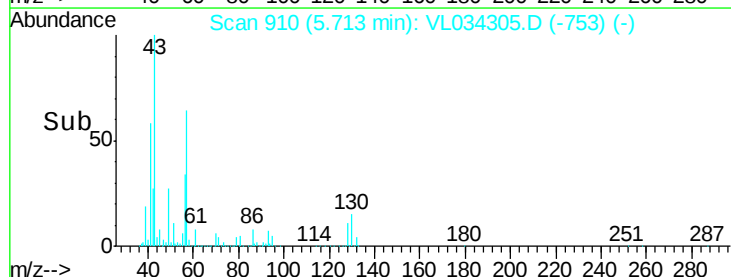
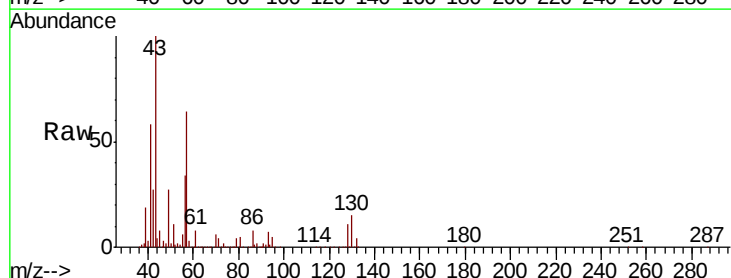
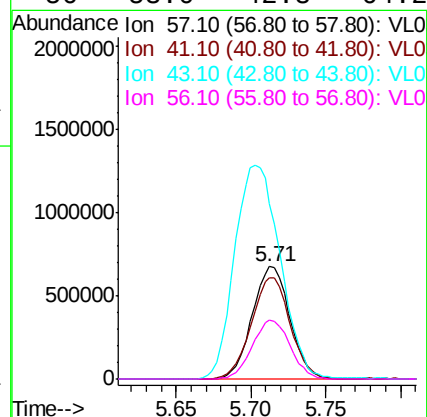
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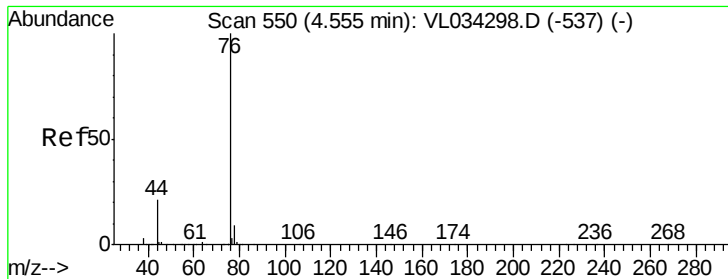
MMDadoda
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#26
Hexane
Concen: 9.909 ppbv
RT: 5.71 min Scan# 910
Delta R.T. 0.00 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	94.2	76.5	114.7	
43	230.9	188.5	282.7	
56	53.0	42.8	64.2	





#27

Carbon Disulfide

Concen: 11.237 ppbv

RT: 4.56 min Scan# 551

Delta R.T. 0.00 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101619

Tot Ion: 76 Resp: 1391876

Ion Ratio Lower Upper

76 100

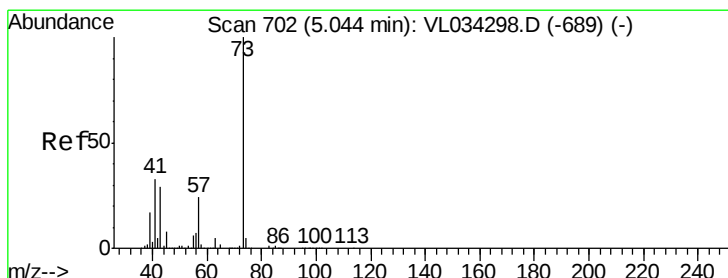
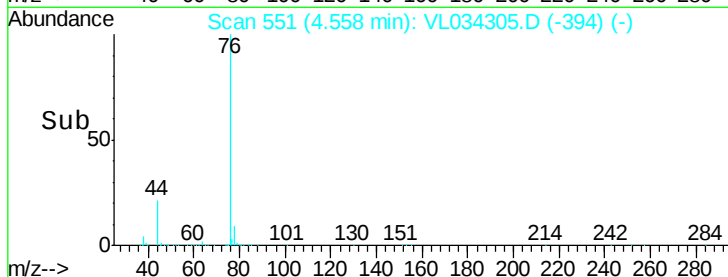
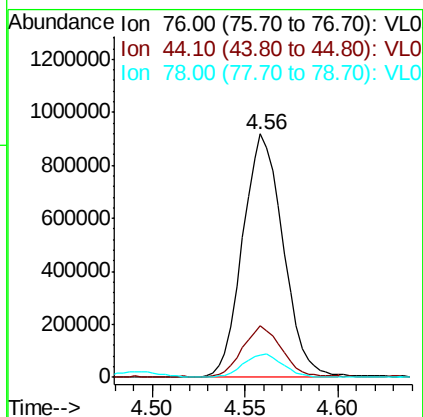
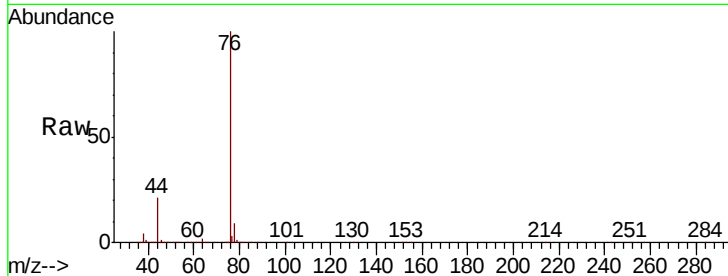
44 20.3 17.3 25.9

78 9.4 7.8 11.6

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 10.580 ppbv

RT: 5.05 min Scan# 703

Delta R.T. 0.00 min

Lab File: VL034305.D

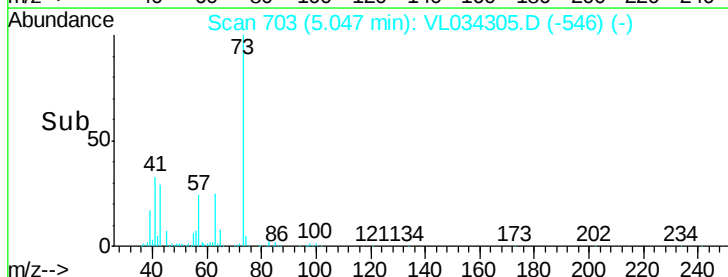
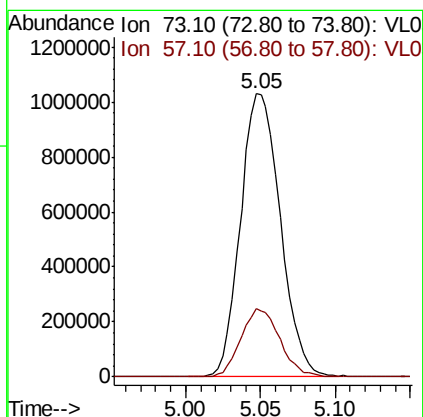
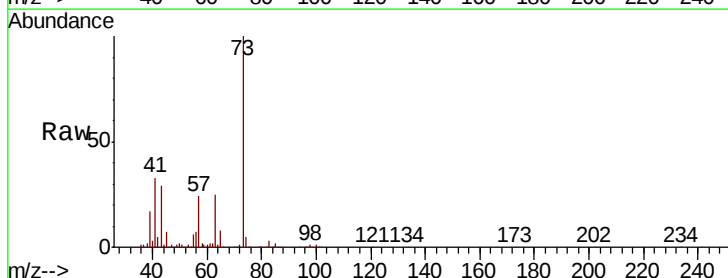
Acq: 16 Oct 2019 18:45

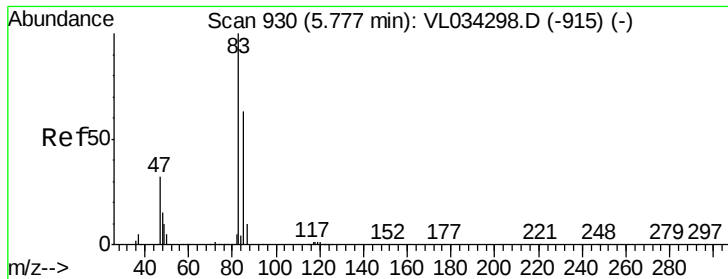
Tgt Ion: 73 Resp: 1910409

Ion Ratio Lower Upper

73 100

57 23.8 19.2 28.8





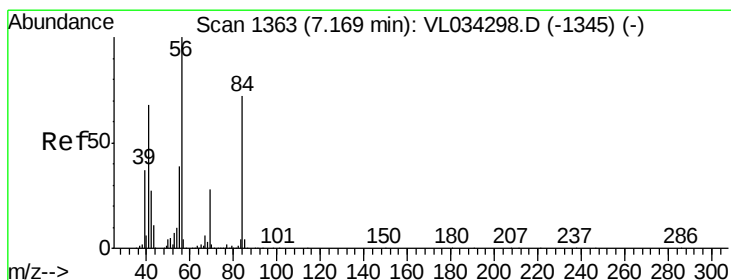
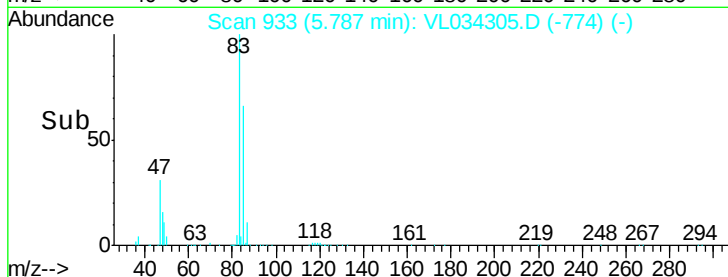
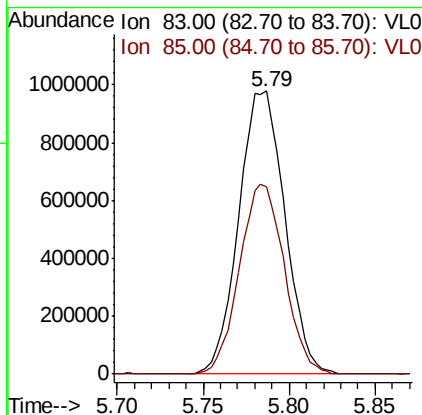
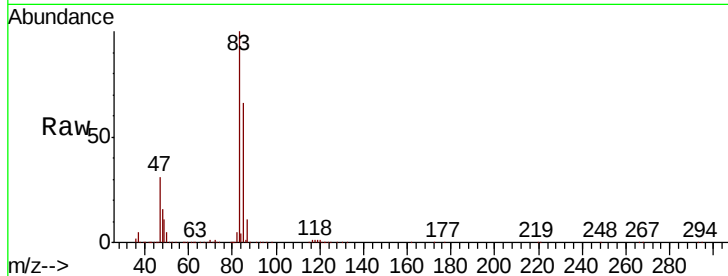
#29
Chloroform
Concen: 9.657 ppbv
RT: 5.79 min Scan# 933
Delta R.T. 0.01 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101619

Tot Ion: 83 Resp: 1822659
Ion Ratio Lower Upper
83 100
85 66.3 50.5 75.7

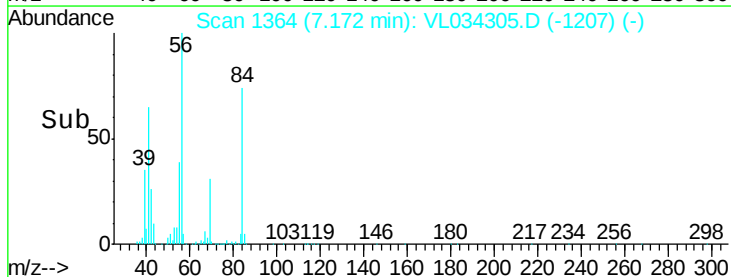
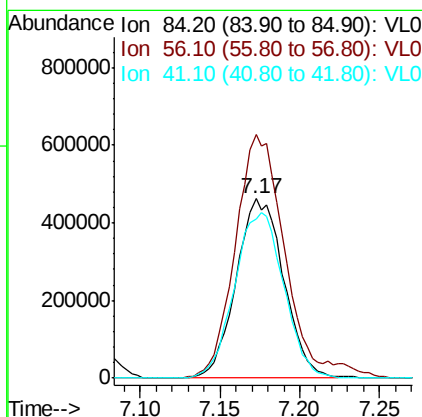
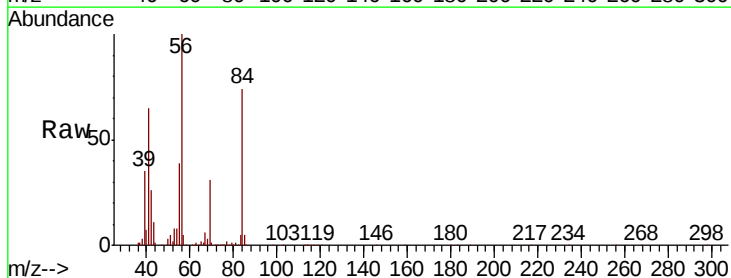
Manual Integrations
APPROVED

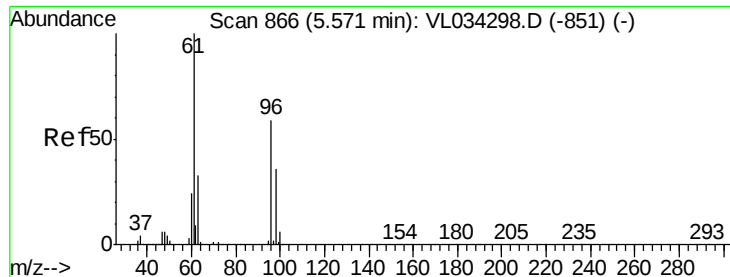
MMDadoda
10/18/2019 3:04:18 PM



#30
Cyclohexane
Concen: 10.644 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. 0.00 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

Tgt Ion: 84 Resp: 933945
Ion Ratio Lower Upper
84 100
56 144.0 119.4 179.0
41 96.0 78.7 118.1





#31

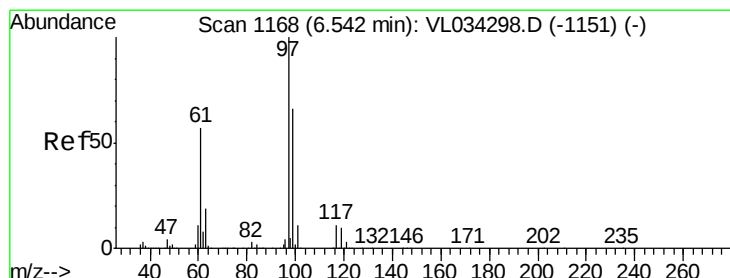
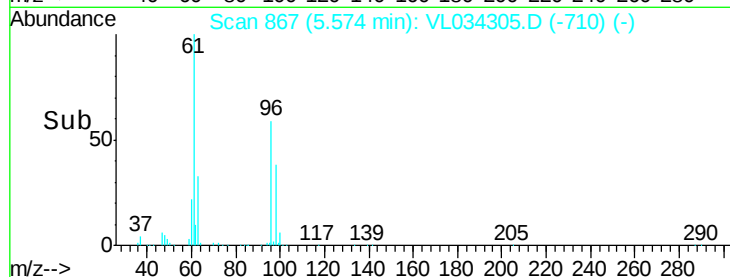
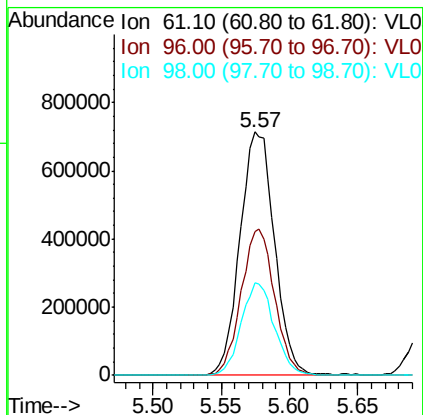
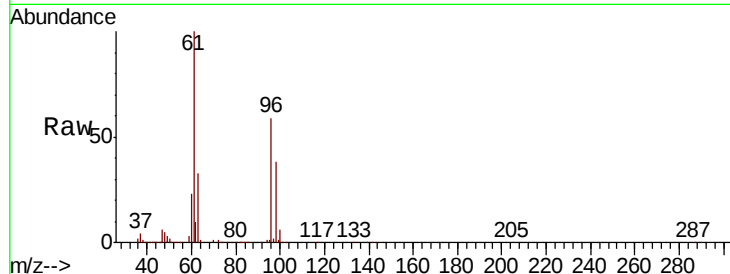
cis-1,2-Dichloroethene
Concen: 10.383 ppbv
RT: 5.57 min Scan# 867
Delta R.T. 0.00 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101619

Tot Ion	Ratio	Lower	Upper
61	100		
96	59.2	47.5	71.3
98	37.9	28.8	43.2

Manual Integrations
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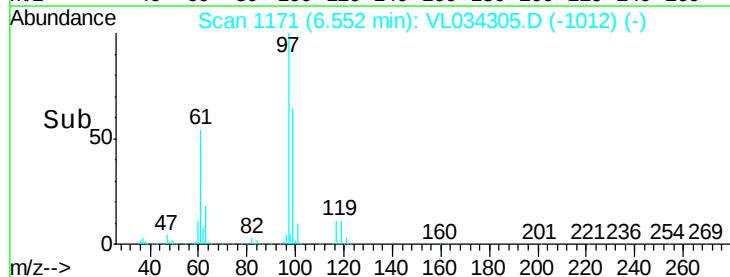
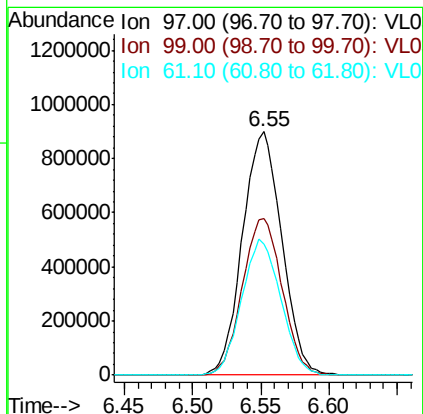
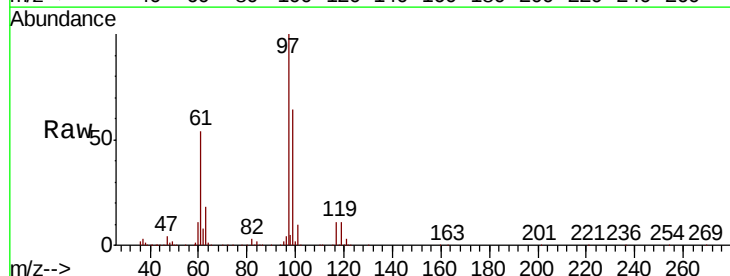
MMDadoda
10/18/2019 3:04:18 PM

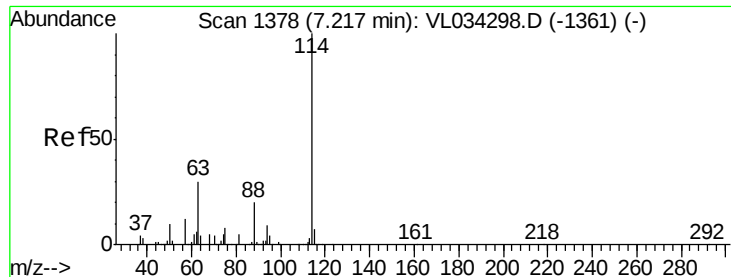


#32

1,1,1-Trichloroethane
Concen: 9.843 ppbv
RT: 6.55 min Scan# 1171
Delta R.T. 0.01 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.1	52.6	78.8
61	55.5	44.5	66.7





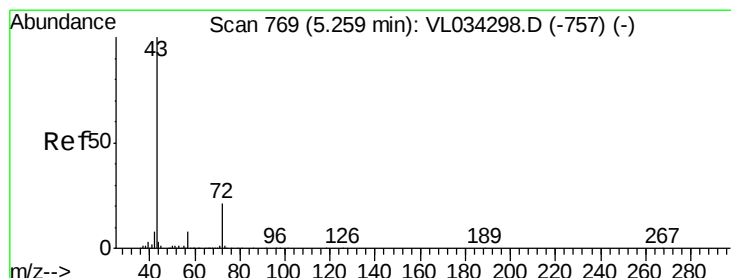
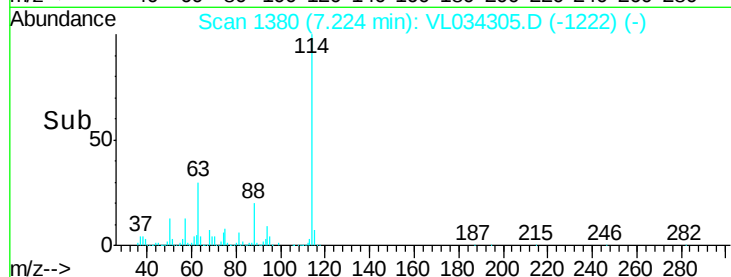
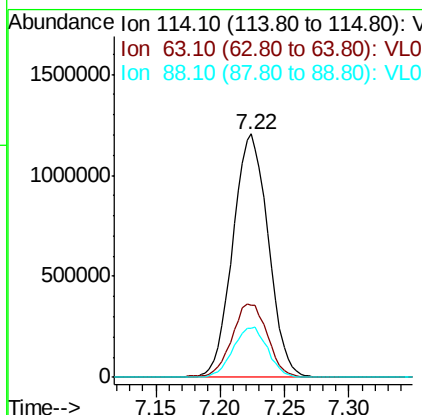
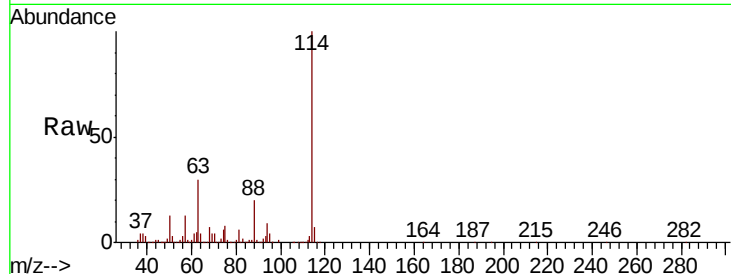
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.22 min Scan# 1380
 Delta R.T. 0.01 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101619

Tot Ion	Ratio	Lower	Upper
114	100		
63	30.7	25.2	37.8
88	20.2	16.0	24.0

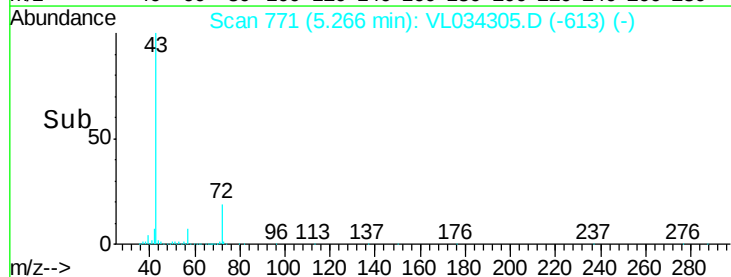
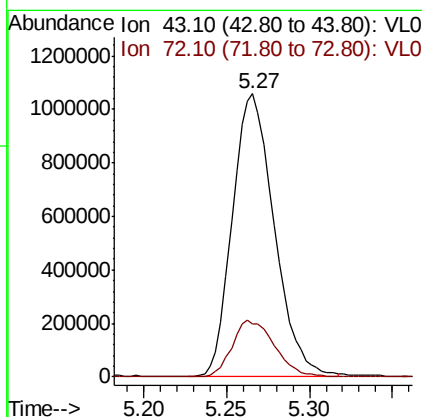
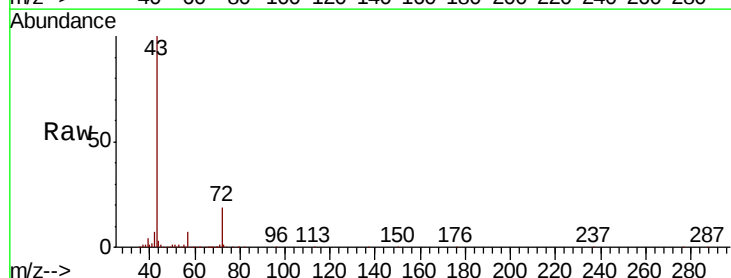
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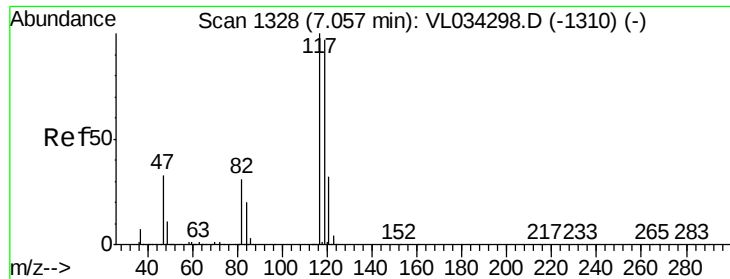
MMDadoda
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#34
 2-Butanone
 Concen: 9.832 ppbv
 RT: 5.27 min Scan# 771
 Delta R.T. 0.01 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.5	16.3	24.5





#35

Carbon Tetrachloride

Concen: 9.361 ppbv

RT: 7.06 min Scan# 1330

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

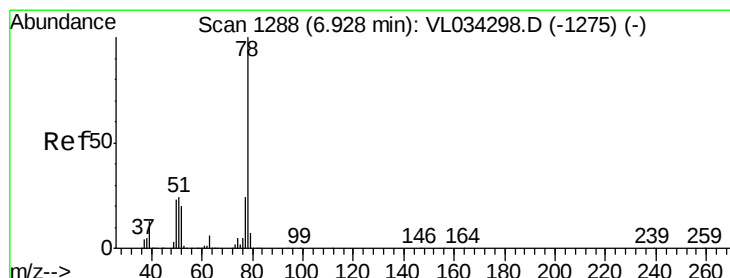
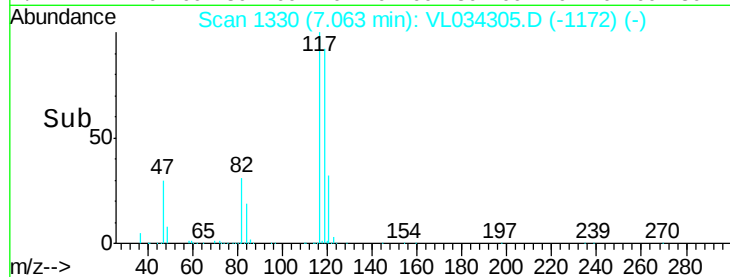
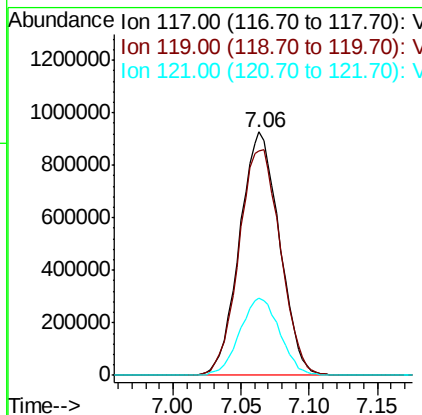
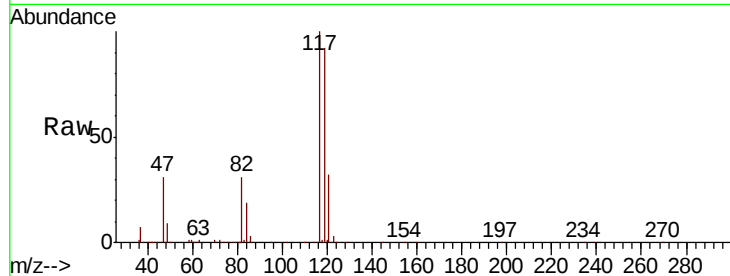
ClientSampleId :

ICVVL101619

Tot Ion	Ratio	Lower	Upper
117	100		
119	92.3	77.3	115.9
121	31.8	25.5	38.3

Manual Integrations
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10/18/2019 3:04:18 PM



#36

Benzene

Concen: 9.940 ppbv

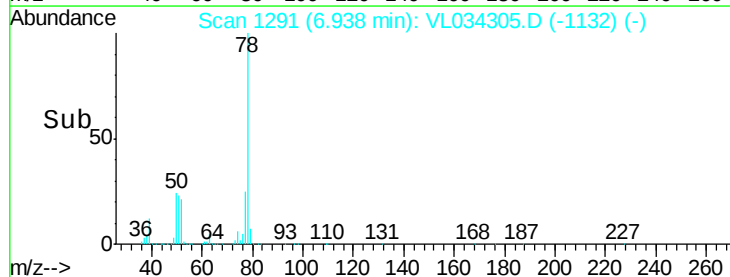
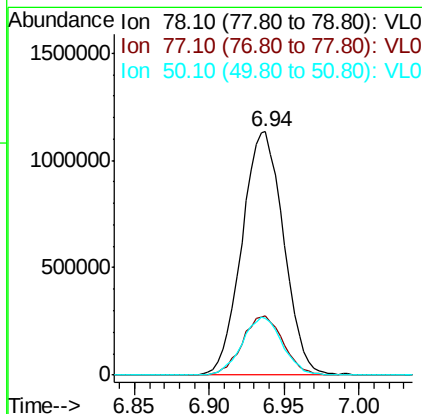
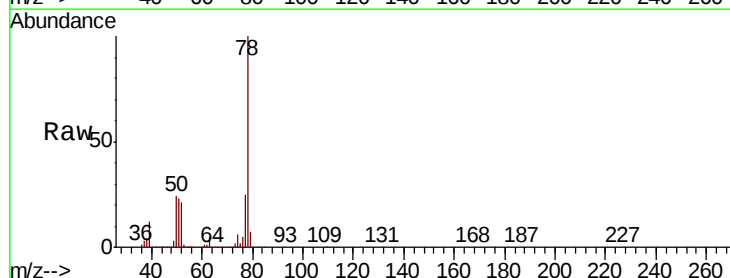
RT: 6.94 min Scan# 1291

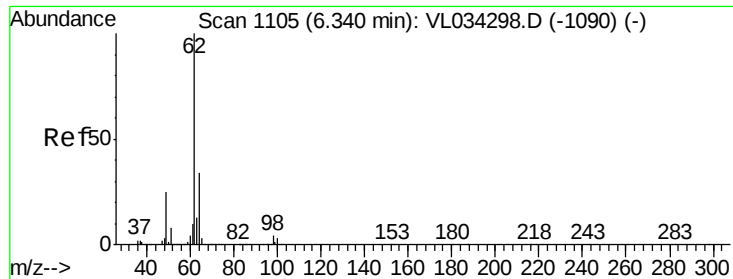
Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.6	19.0	28.4
50	23.5	18.6	27.8





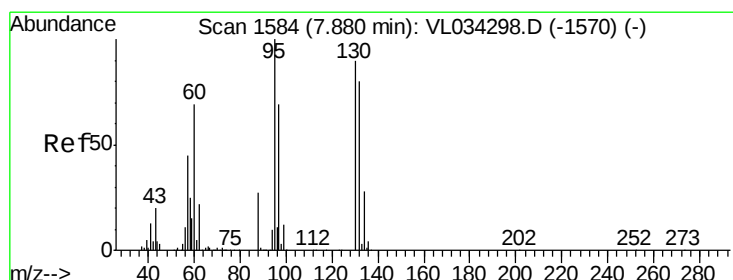
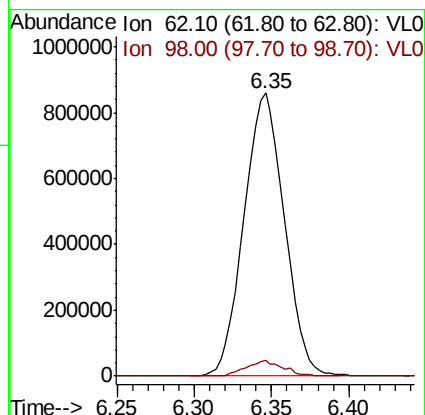
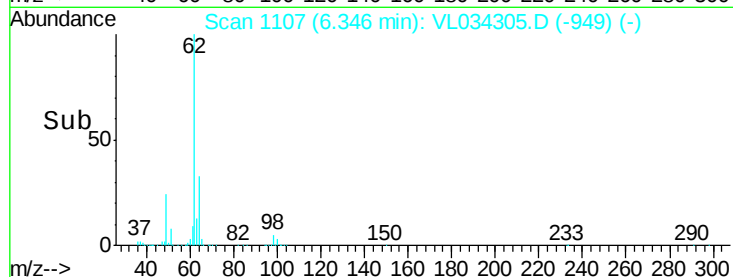
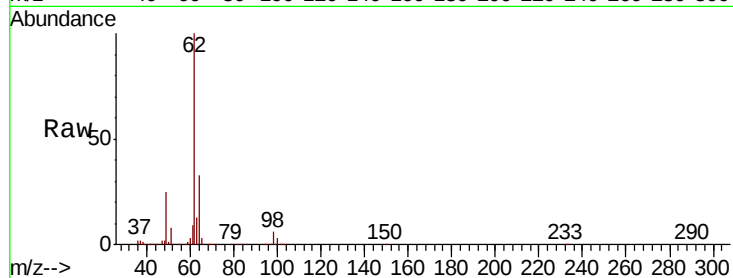
#37
1,2-Dichloroethane
Concen: 9.475 ppbv
RT: 6.35 min Scan# 1107
Delta R.T. 0.01 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101619

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.1	3.8	5.6

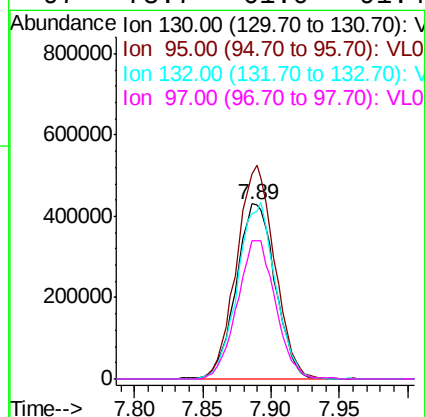
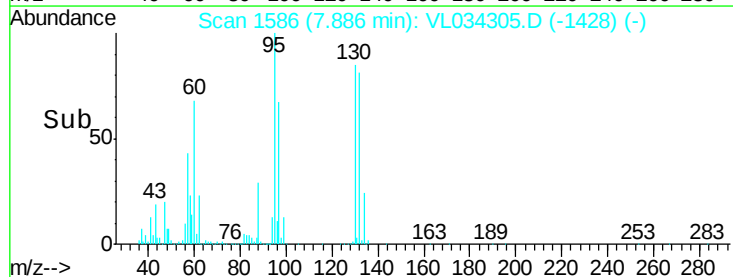
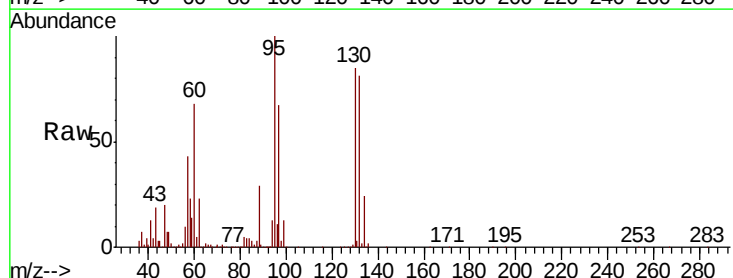
Manual Integrations
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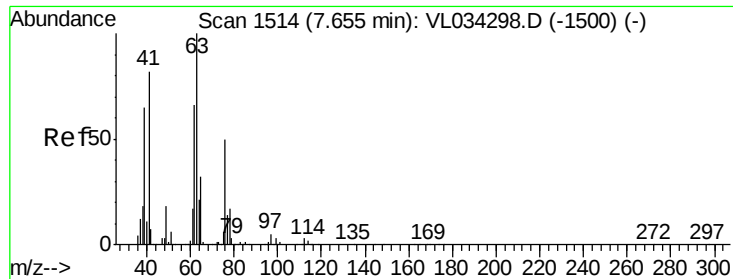
MMDadoda
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#38
Trichloroethene
Concen: 9.555 ppbv
RT: 7.89 min Scan# 1586
Delta R.T. 0.01 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

Tgt Ion	Ratio	Lower	Upper
130	100		
95	117.3	88.6	132.8
132	94.5	71.2	106.8
97	78.7	61.0	91.4





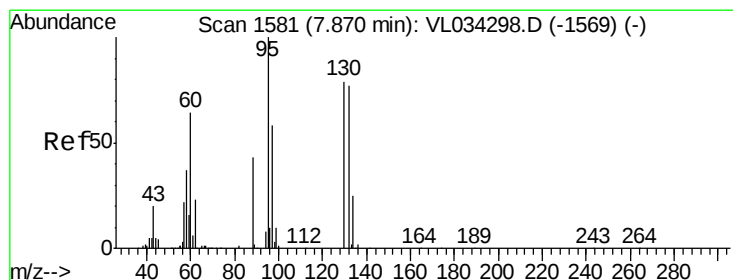
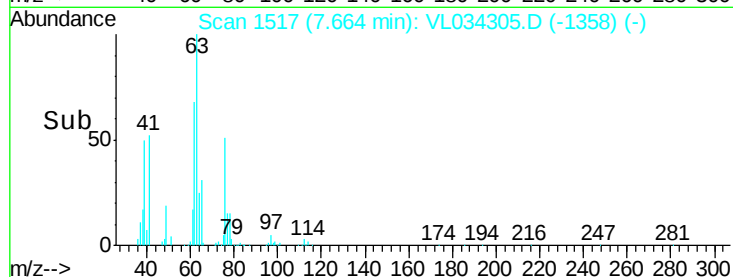
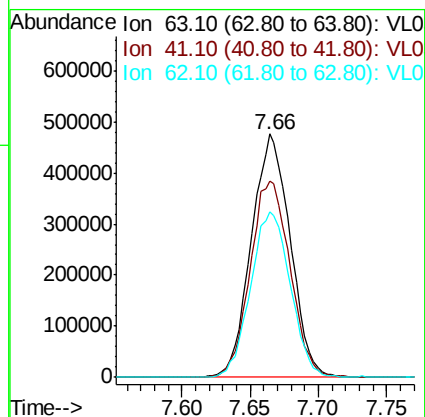
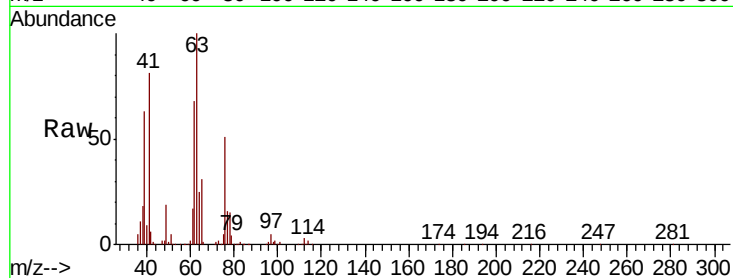
#39
 1,2-Dichloropropane
 Concen: 9.877 ppbv
 RT: 7.66 min Scan# 1517
 Delta R.T. 0.01 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101619

Tot Ion	Ratio	Lower	Upper
63	100		
41	80.6	65.6	98.4
62	68.1	53.0	79.6

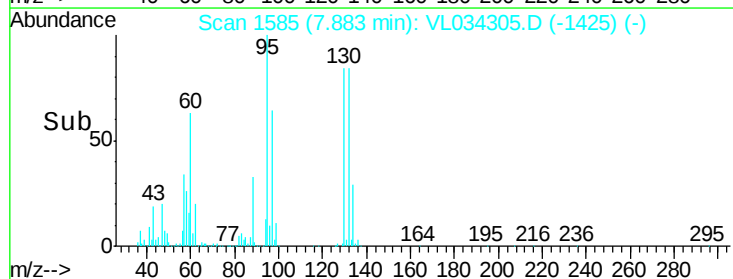
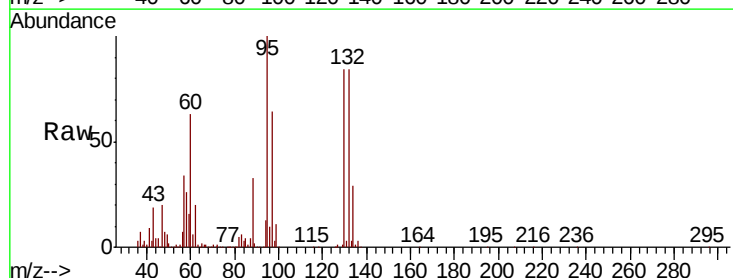
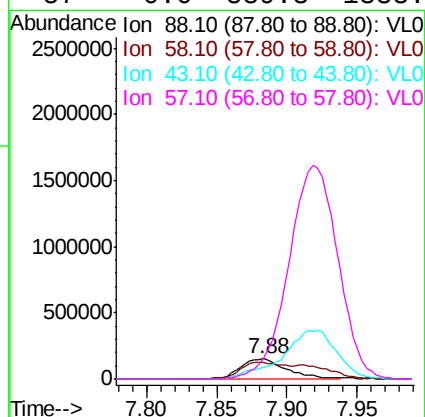
Manual Integrations
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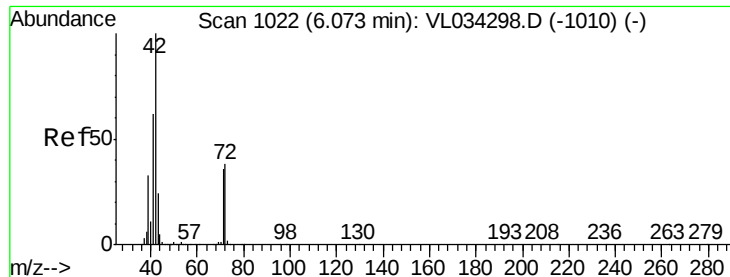
MMDadoda
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#40
 1,4-Dioxane
 Concen: 10.529 ppbv
 RT: 7.88 min Scan# 1585
 Delta R.T. 0.01 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

Tgt Ion	Ratio	Lower	Upper
88	100		
58	136.1	110.3	165.5
43	0.0	228.1	342.1#
57	0.0	889.3	1333.9#





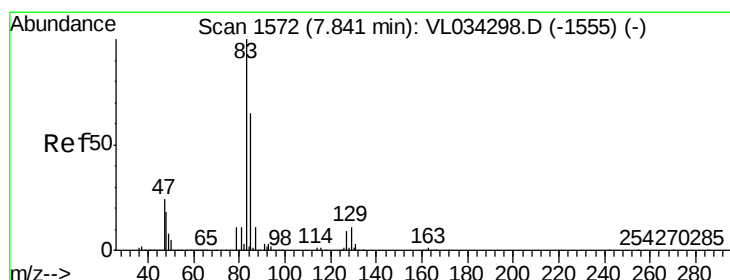
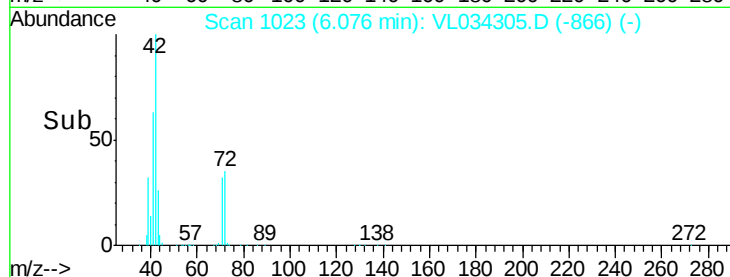
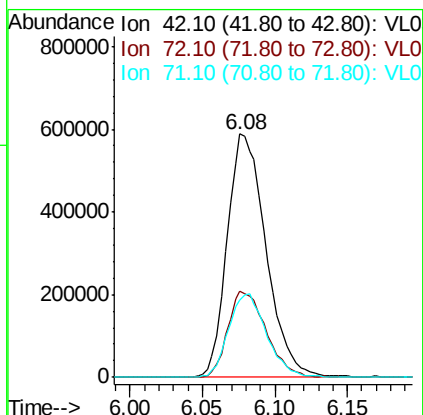
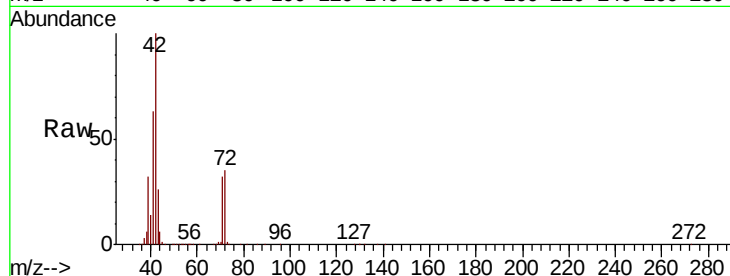
#41
Tetrahydrofuran
Concen: 10.455 ppbv
RT: 6.08 min Scan# 1023
Delta R.T. 0.00 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101619

Tot Ion	Ratio	Lower	Upper
42	100		
72	35.1	28.0	42.0
71	33.9	27.3	40.9

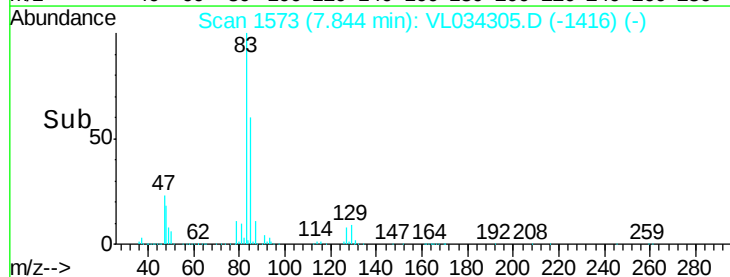
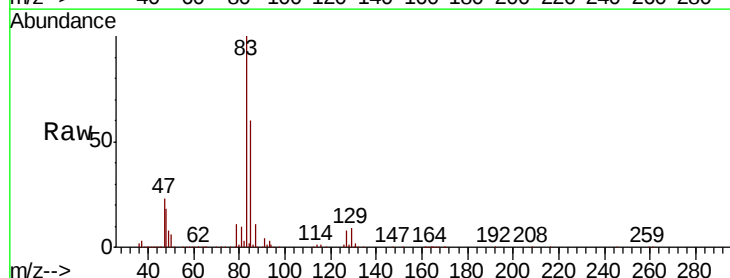
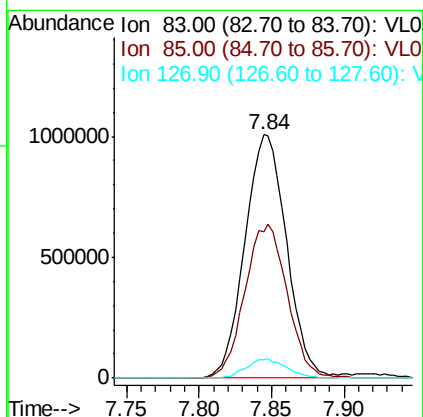
Manual Integrations
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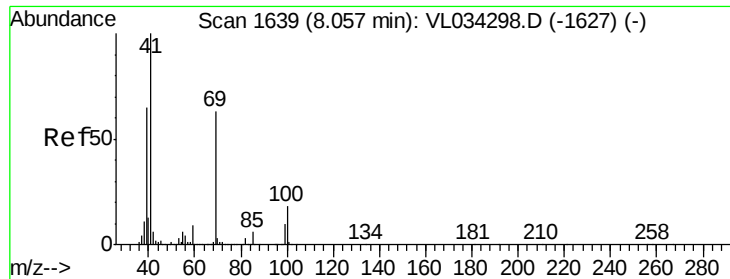
MMDadoda
10/18/2019 3:04:18 PM



#42
Bromodichloromethane
Concen: 9.993 ppbv
RT: 7.84 min Scan# 1573
Delta R.T. 0.00 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.1	51.8	77.6
127	7.6	7.0	10.6





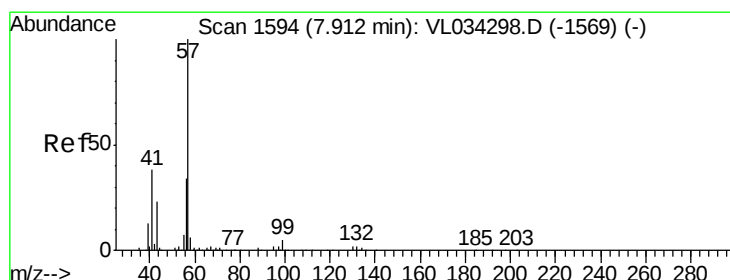
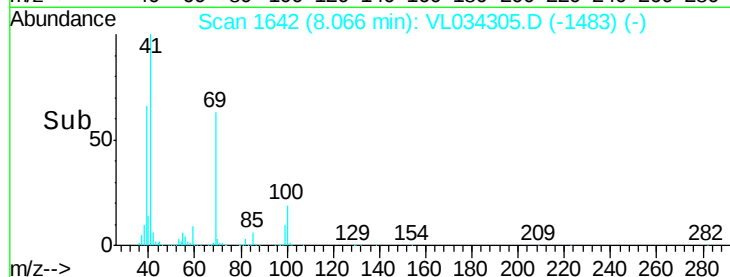
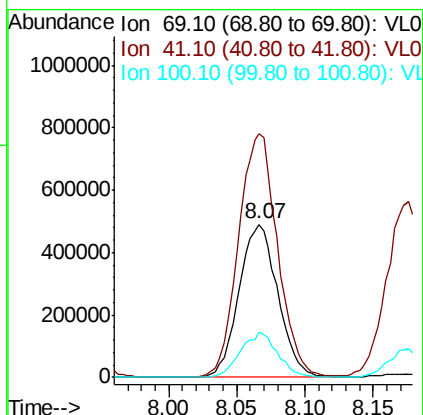
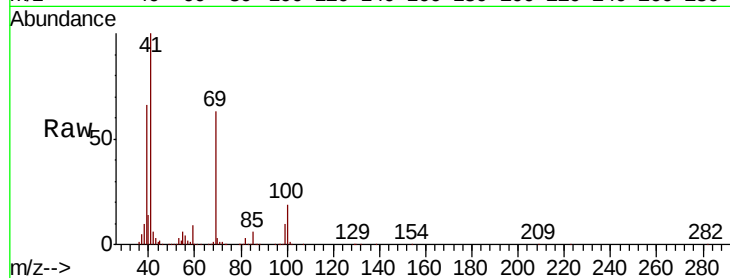
#43
Methvl Methacrilate
Concen: 10.590 ppbv
RT: 8.07 min Scan# 1642
Delta R.T. 0.01 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101619

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	159.8	132.1	198.1	
100	28.3	23.2	34.8	

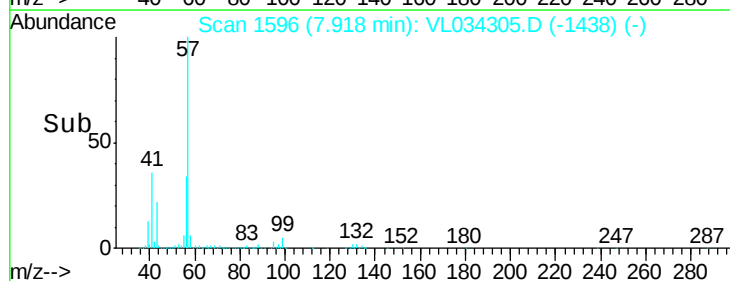
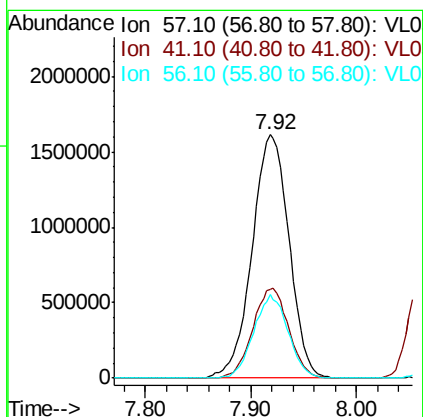
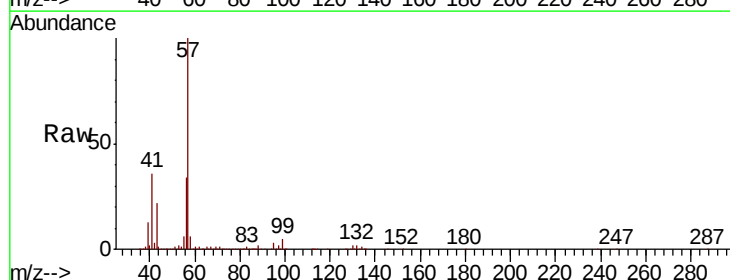
Manual Integrations
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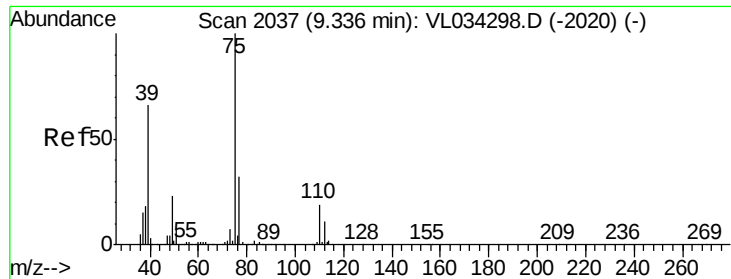
MMDadoda
10/18/2019 3:04:18 PM



#44
2,2,4-Trimethylpentane
Concen: 9.612 ppbv
RT: 7.92 min Scan# 1596
Delta R.T. 0.01 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	35.9	29.3	43.9	
56	31.9	25.3	37.9	





#45

t-1,3-Dichloropropene

Concen: 11.605 ppbv

RT: 9.34 min Scan# 2038

Delta R.T. 0.00 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101619

Tot Ion: 75 Resp: 1293484

Ion Ratio Lower Upper

75 100

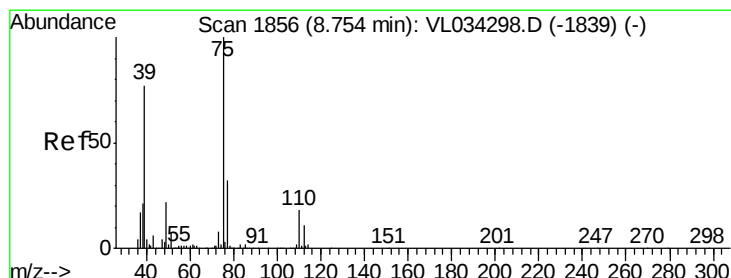
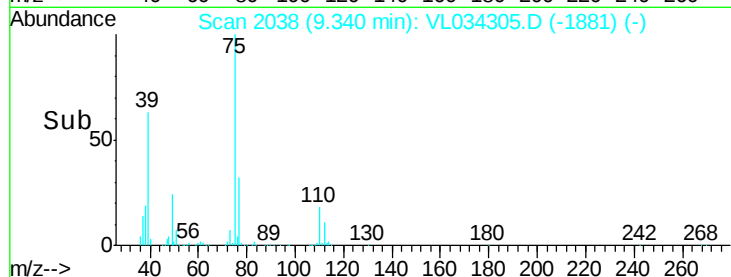
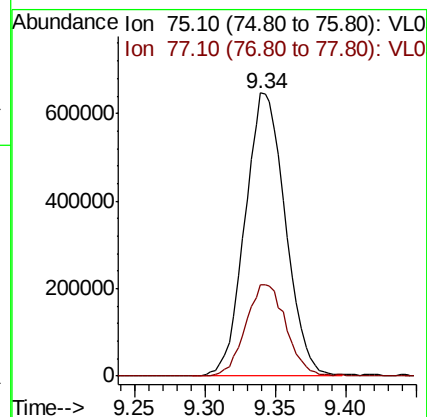
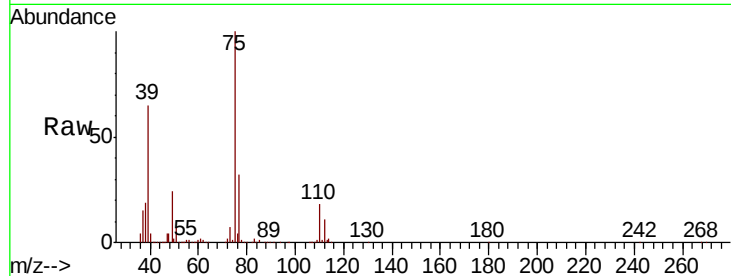
77 32.2 25.6 38.4

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#46

cis-1,3-Dichloropropene

Concen: 11.302 ppbv

RT: 8.76 min Scan# 1859

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

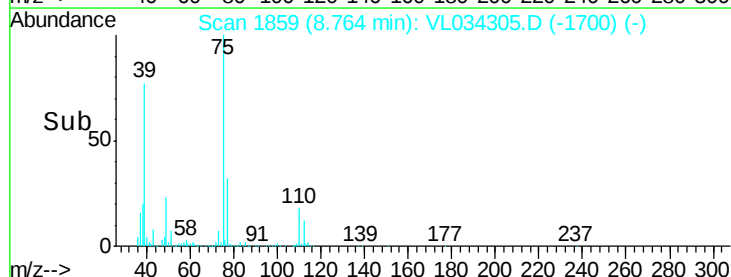
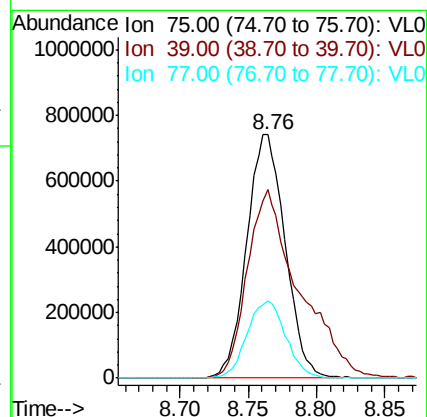
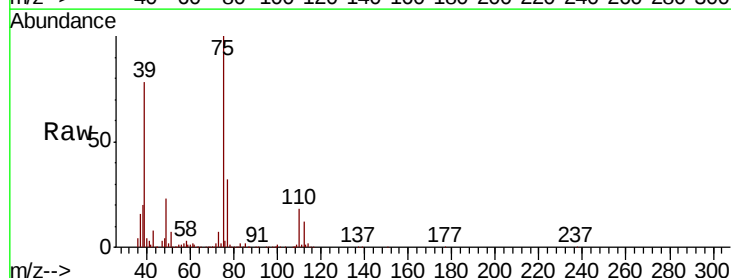
Tgt Ion: 75 Resp: 1447298

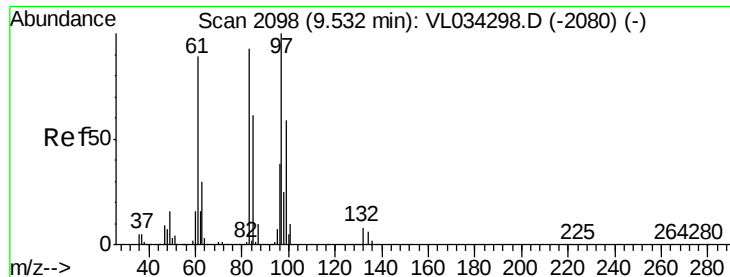
Ion Ratio Lower Upper

75 100

39 77.5 61.2 91.8

77 31.9 25.9 38.9





#47

1,1,2-Trichloroethane

Concen: 9.594 ppbv

RT: 9.54 min Scan# 2101

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

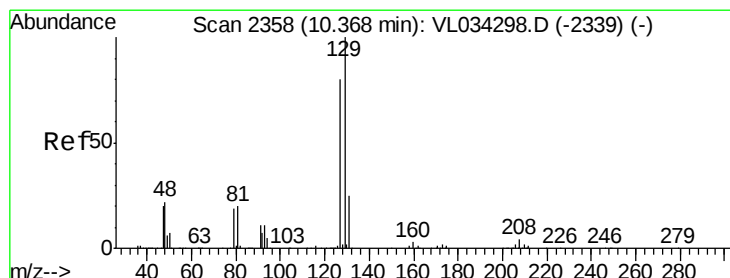
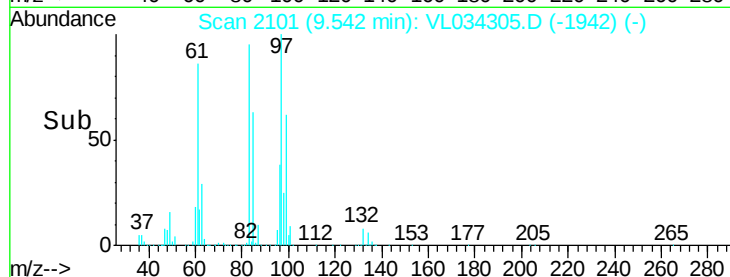
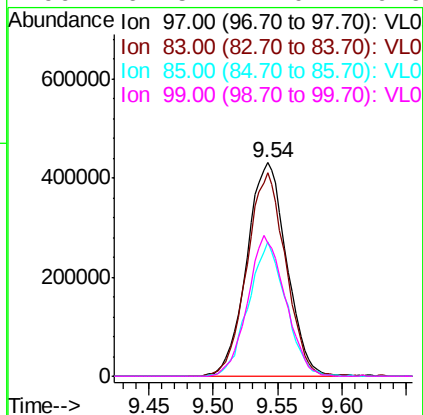
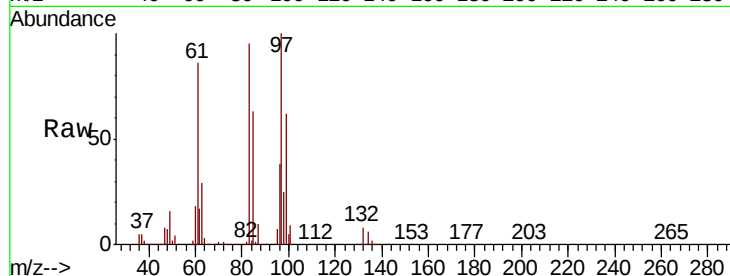
ClientSampleId :

ICVVL101619

Tot Ion:	97	Resp:	925615
Ion Ratio	Lower	Upper	
97	100		
83	95.3	74.2	111.2
85	62.9	48.6	73.0
99	62.5	47.0	70.6

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#48

Dibromochloromethane

Concen: 10.444 ppbv

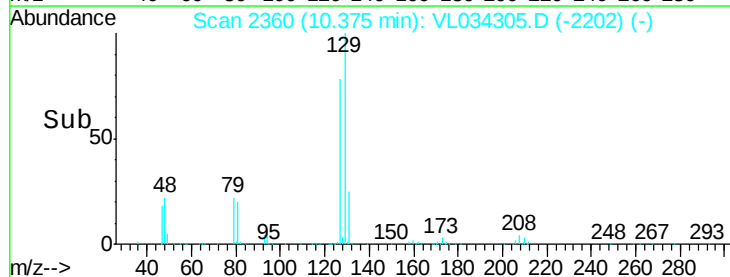
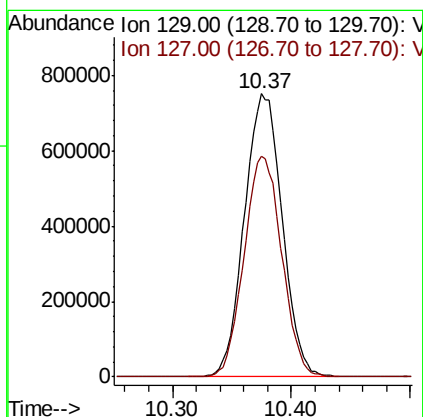
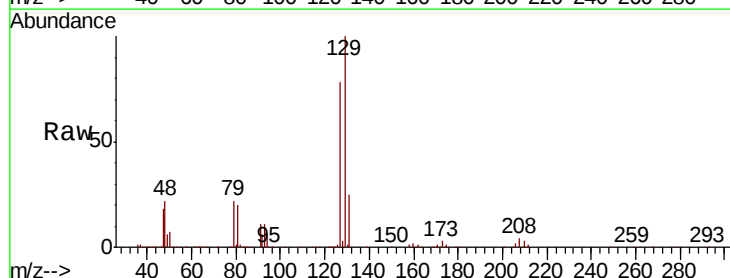
RT: 10.37 min Scan# 2360

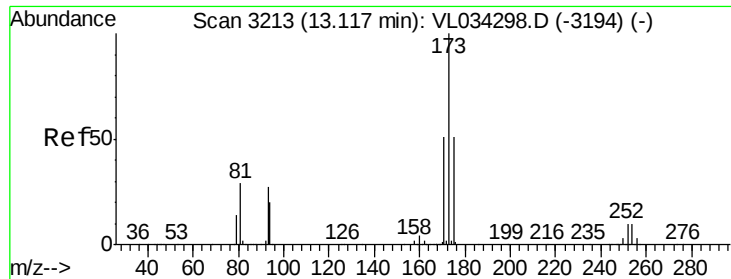
Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Tgt Ion:	129	Resp:	1652860
Ion Ratio	Lower	Upper	
129	100		
127	77.8	39.7	119.1





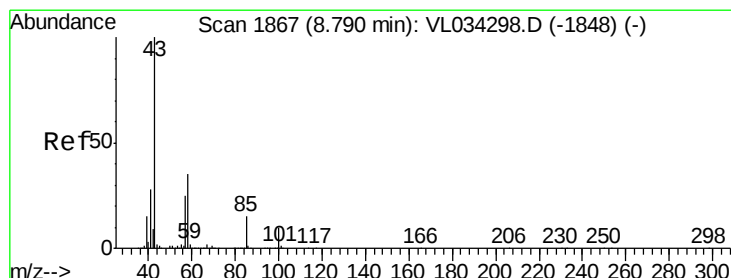
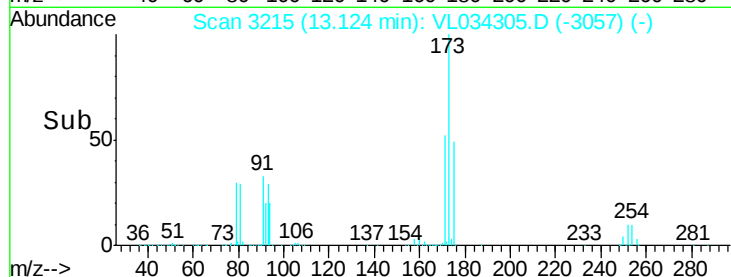
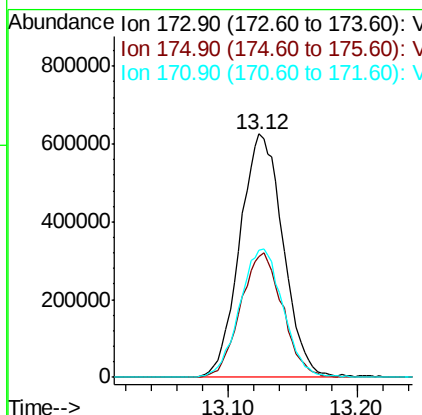
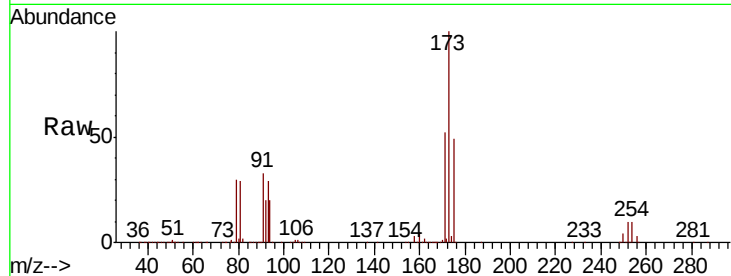
#49
Bromoform
Concen: 10.408 ppbv
RT: 13.12 min Scan# 3215
Delta R.T. 0.01 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101619

Tot Ion: 173 Resp: 1459511
Ion Ratio Lower Upper
173 100
175 50.0 39.8 59.6
171 52.9 41.8 62.6

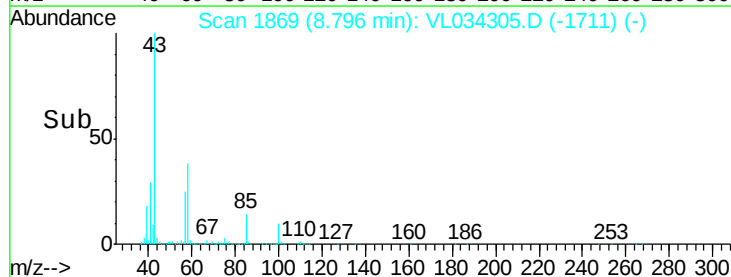
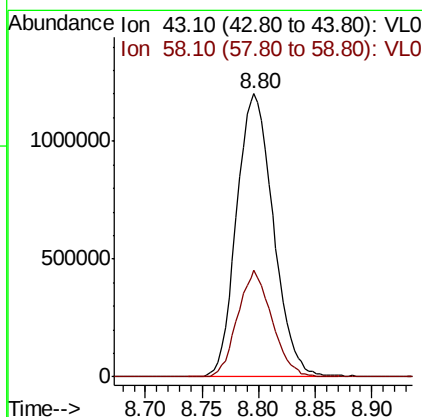
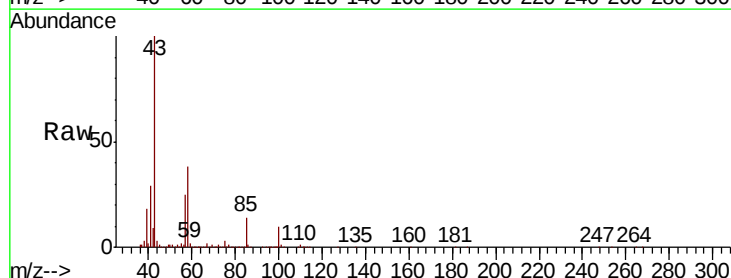
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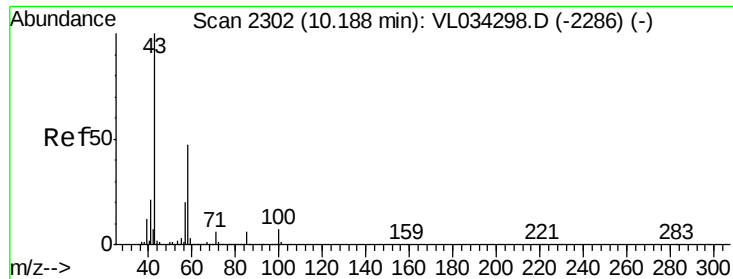
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 10.072 ppbv
RT: 8.80 min Scan# 1869
Delta R.T. 0.01 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

Tgt Ion: 43 Resp: 2717097
Ion Ratio Lower Upper
43 100
58 35.2 27.6 41.4





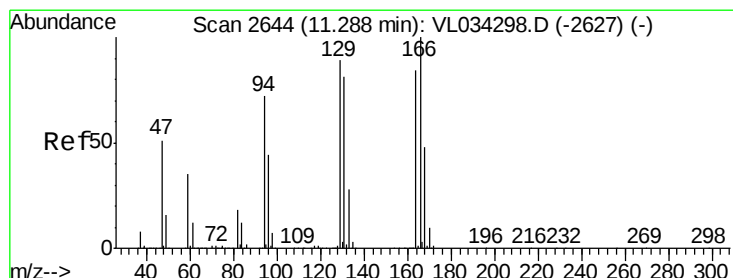
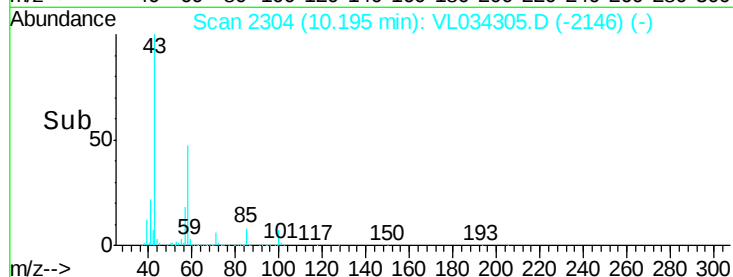
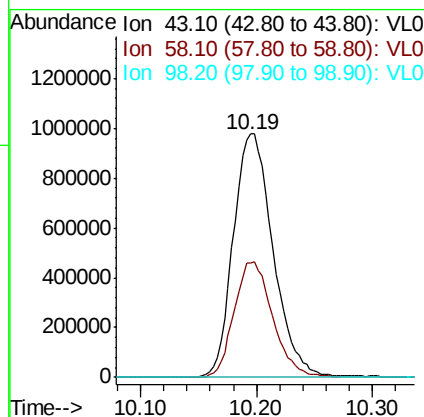
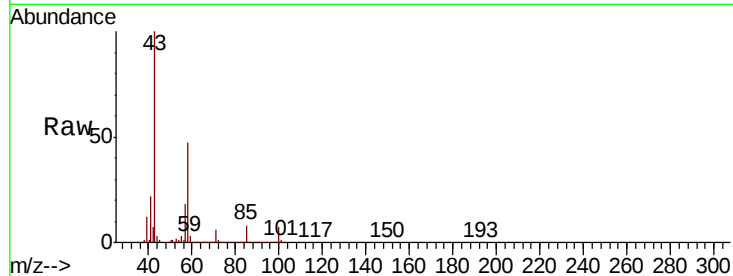
#51
2-Hexanone
Concen: 10.516 ppbv
RT: 10.19 min Scan# 2304
Delta R.T. 0.01 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101619

Tot Ion: 43 Resp: 2325468
Ion Ratio Lower Upper
43 100
58 46.2 37.0 55.6
98 0.2 0.2 0.2

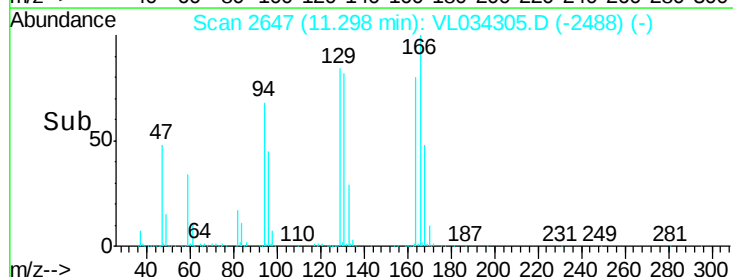
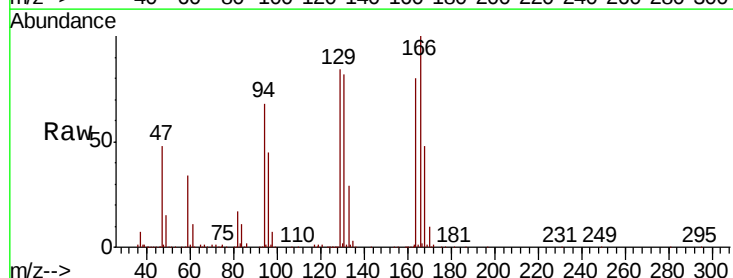
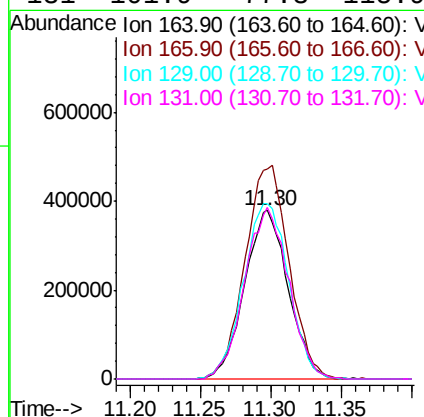
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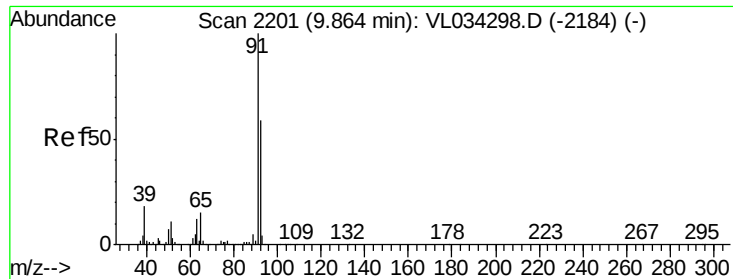
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#52
Tetrachloroethene
Concen: 9.414 ppbv
RT: 11.30 min Scan# 2647
Delta R.T. 0.01 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

Tgt Ion: 164 Resp: 816233
Ion Ratio Lower Upper
164 100
166 124.3 95.3 142.9
129 104.0 84.5 126.7
131 101.9 77.3 115.9





#53

Toluene

Concen: 10.406 ppbv

RT: 9.87 min Scan# 2204

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101619

Tot Ion: 91 Resp: 2540122

Ion Ratio Lower Upper

91 100

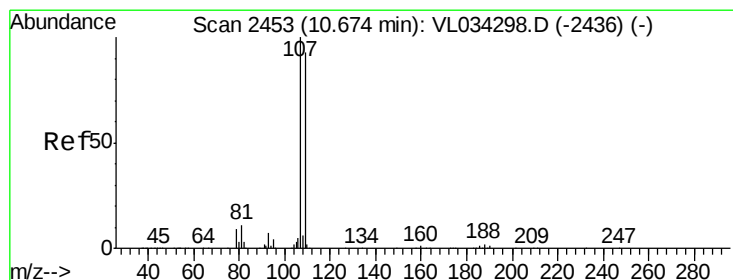
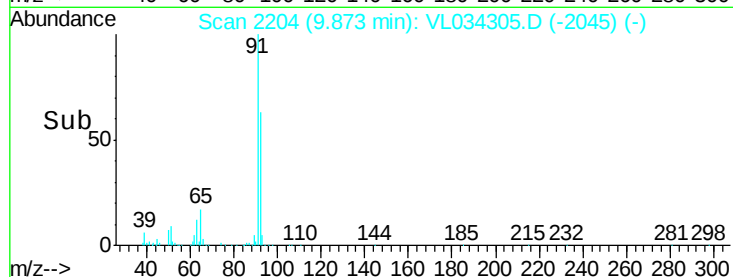
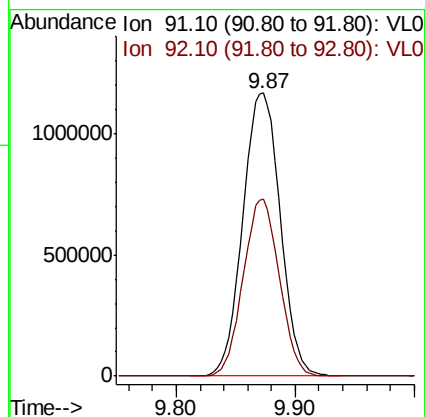
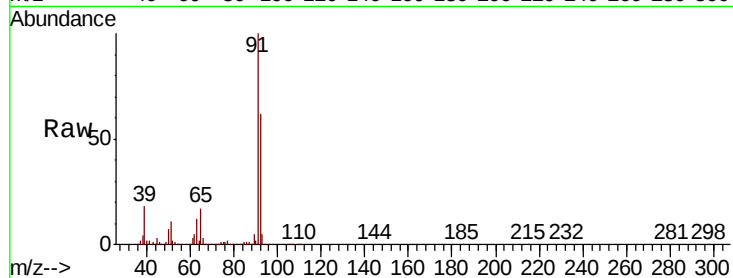
92 60.4 48.4 72.6

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#54

1,2-Dibromoethane

Concen: 9.708 ppbv

RT: 10.69 min Scan# 2457

Delta R.T. 0.01 min

Lab File: VL034305.D

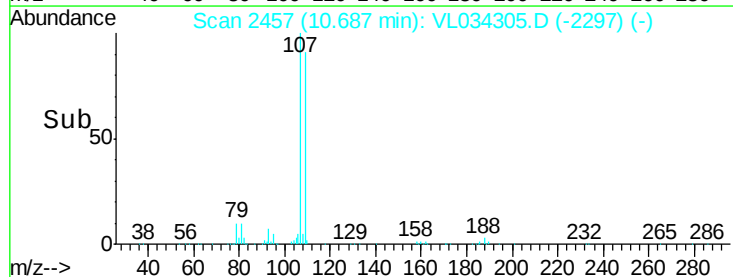
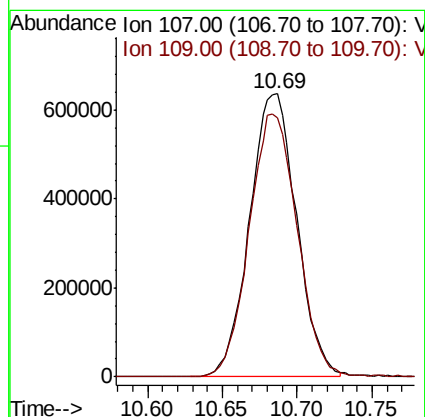
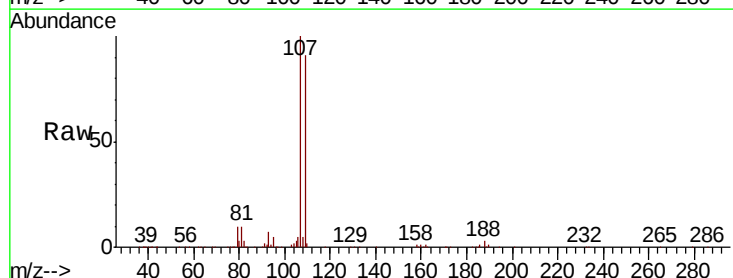
Acq: 16 Oct 2019 18:45

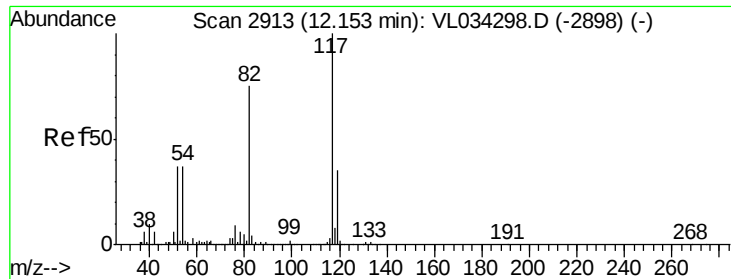
Tgt Ion: 107 Resp: 1388094

Ion Ratio Lower Upper

107 100

109 91.4 74.6 112.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.17 min Scan# 2917

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101619

Tot Ion:117 Resp: 2509694

Ion Ratio Lower Upper

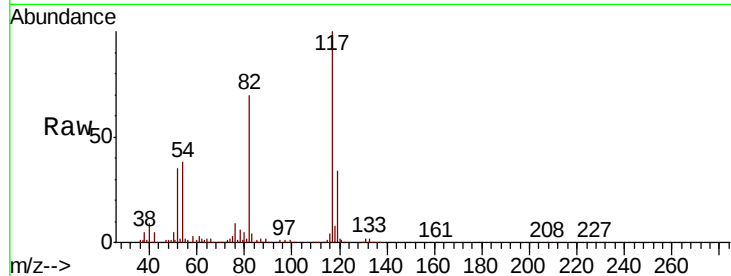
117 100

82 69.2 55.5 83.3

119 31.7 26.5 39.7

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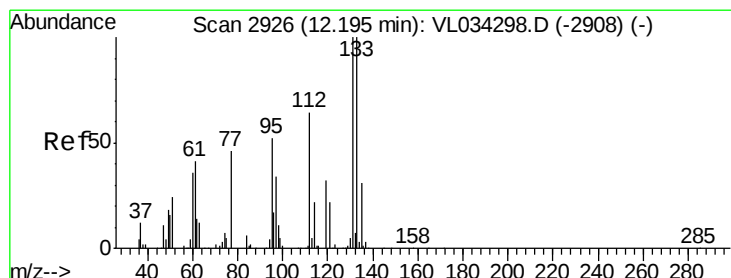
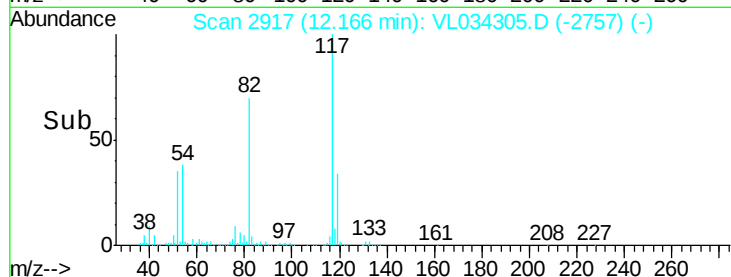
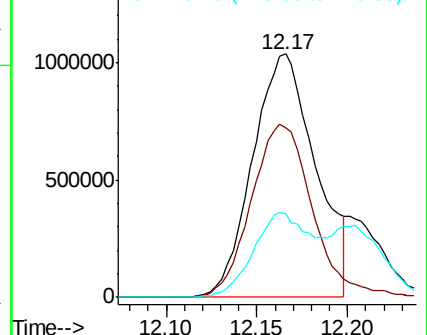
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 9.340 ppbv

RT: 12.20 min Scan# 2928

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

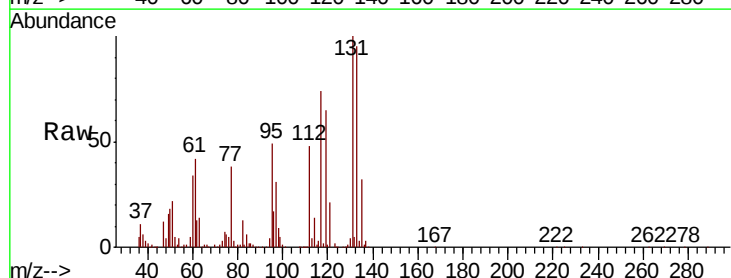
Tgt Ion:131 Resp: 1080205

Ion Ratio Lower Upper

131 100

133 96.7 77.1 115.7

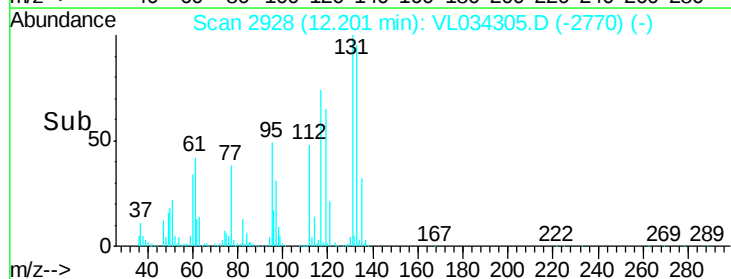
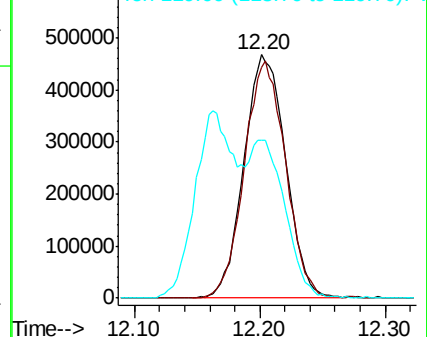
119 54.7 49.0 73.4

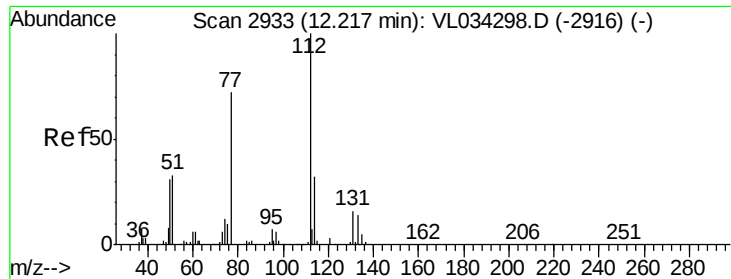


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 9.094 ppbv

RT: 12.22 min Scan# 2935

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

ClientSampled :

ICVVL101619

Tot Ion:112 Resp: 1904062

Ion Ratio Lower Upper

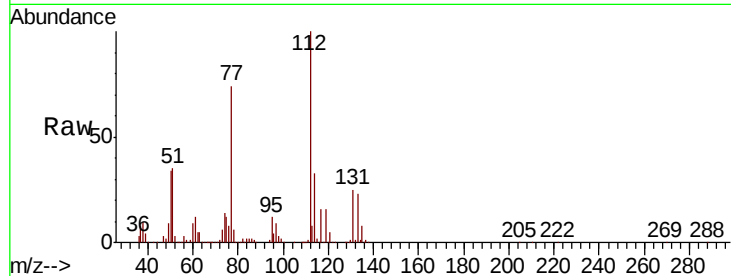
112 100

77 73.4 58.6 88.0

114 32.9 28.6 35.0

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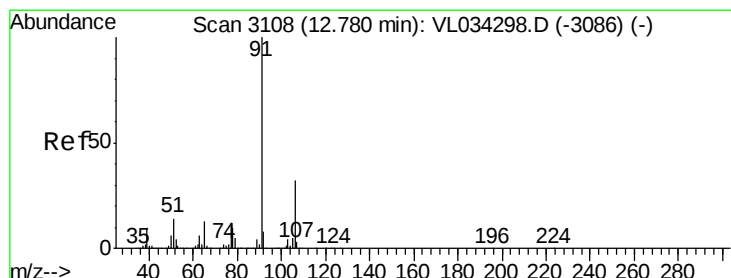
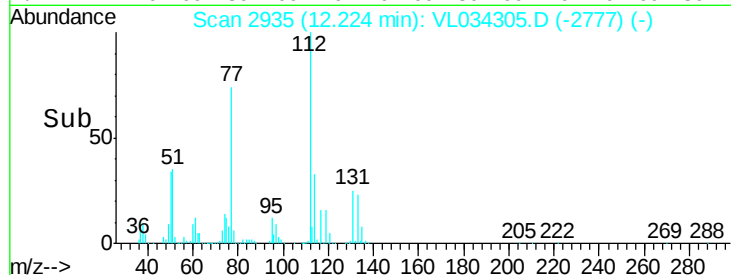
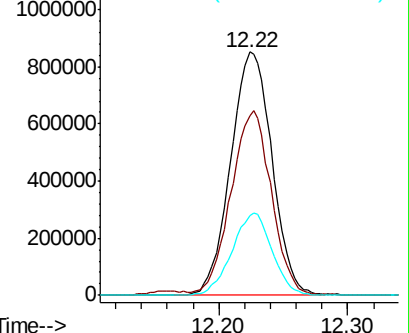
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 9.788 ppbv

RT: 12.79 min Scan# 3111

Delta R.T. 0.01 min

Lab File: VL034305.D

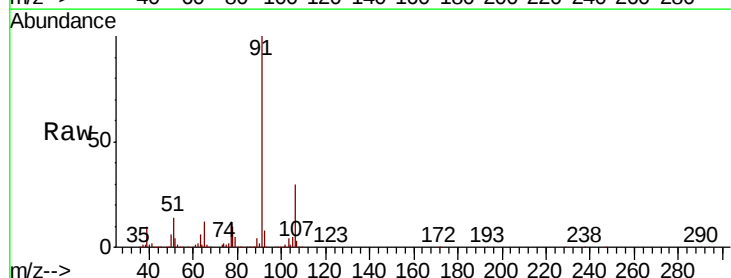
Acq: 16 Oct 2019 18:45

Tgt Ion: 91 Resp: 3434045

Ion Ratio Lower Upper

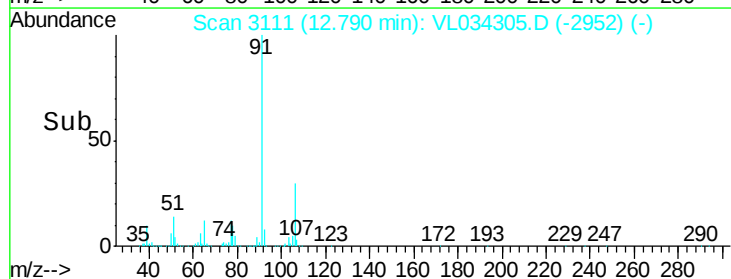
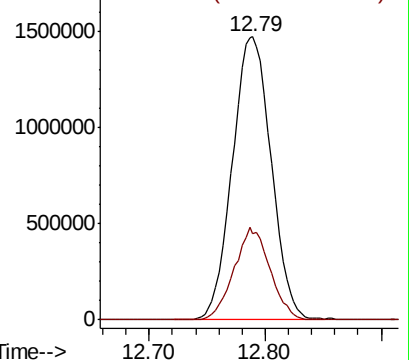
91 100

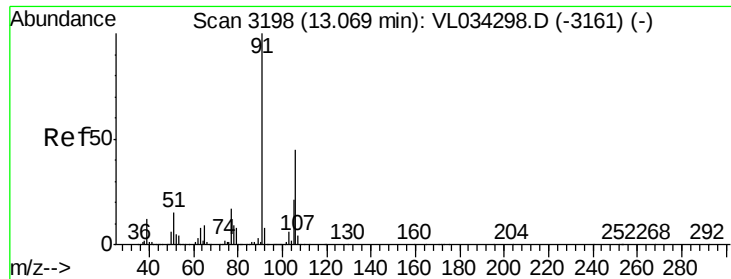
106 30.4 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





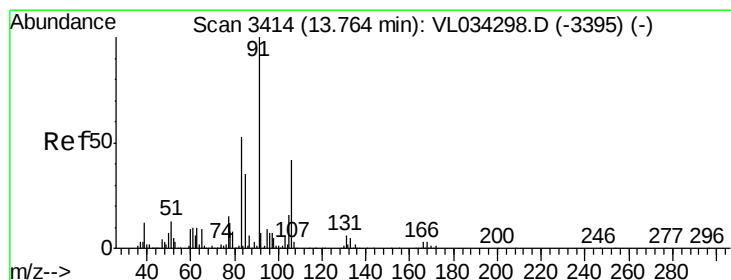
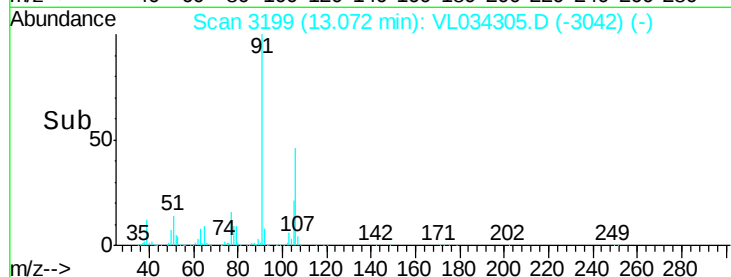
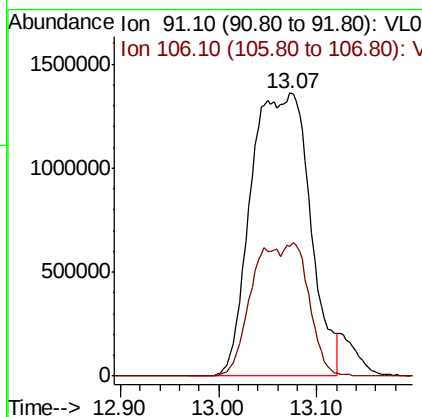
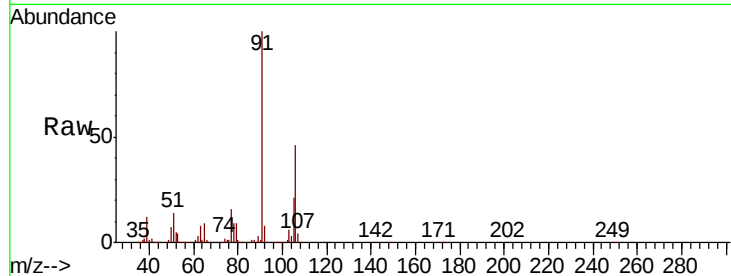
#59
m/p-Xylene
Concen: 18.730 ppbv m
RT: 13.07 min Scan# 3199
Delta R.T. 0.00 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101619

Tot Ion: 91 Resp: 5693369
Ion Ratio Lower Upper
91 100
106 44.8 35.4 53.2

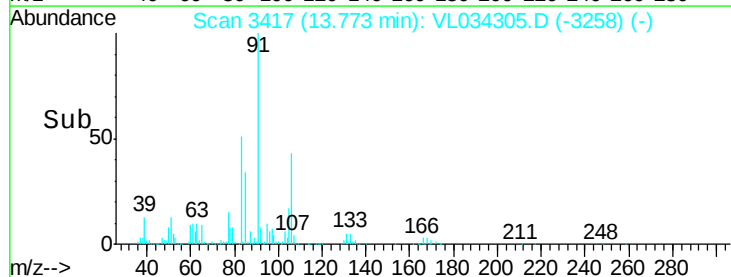
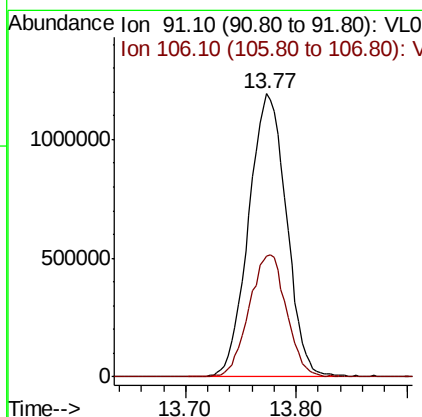
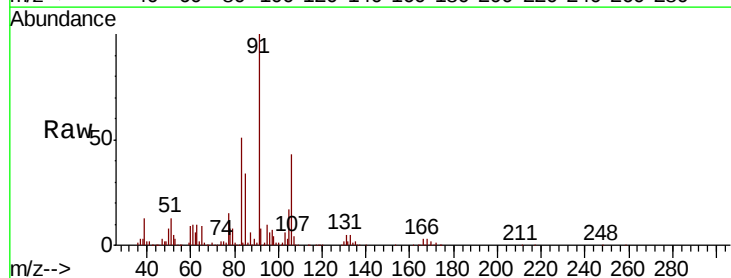
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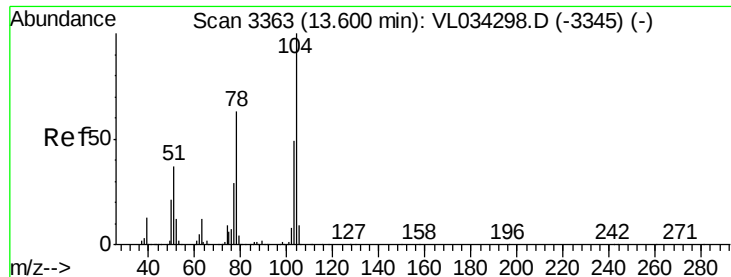
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#60
o-Xylene
Concen: 9.377 ppbv
RT: 13.77 min Scan# 3417
Delta R.T. 0.01 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

Tgt Ion: 91 Resp: 2838167
Ion Ratio Lower Upper
91 100
106 42.8 21.6 64.6





#61

Stvrene

Concen: 10.019 ppbv

RT: 13.61 min Scan# 3366

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101619

Tot Ion:104 Resp: 2135070

Ion Ratio Lower Upper

104 100

78 60.8 47.8 71.8

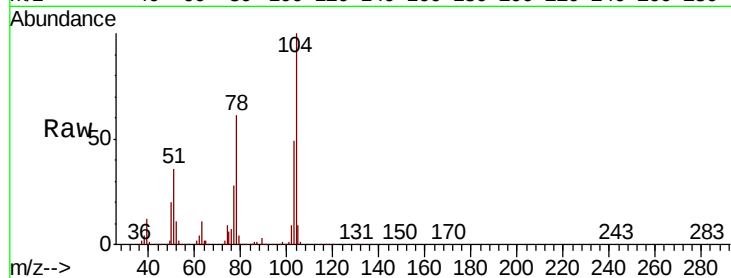
103 48.7 39.0 58.6

Manual Integrations

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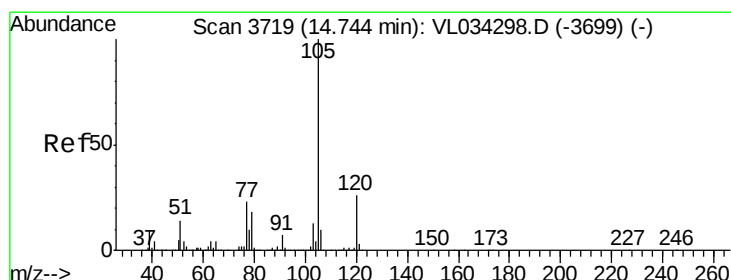
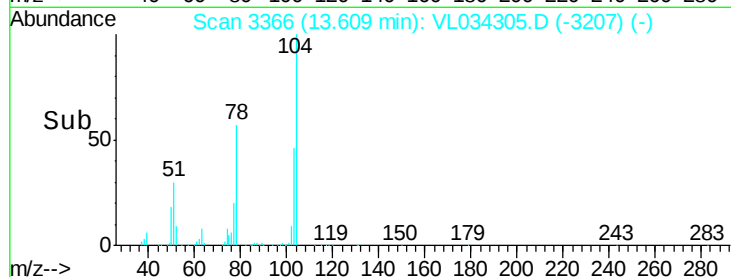
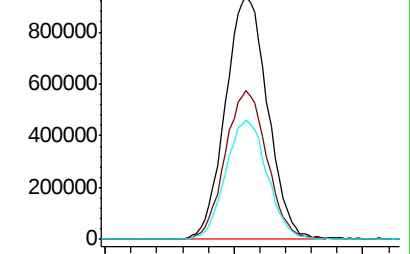
10/18/2019 3:04:18 PM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.238 ppbv

RT: 14.75 min Scan# 3721

Delta R.T. 0.01 min

Lab File: VL034305.D

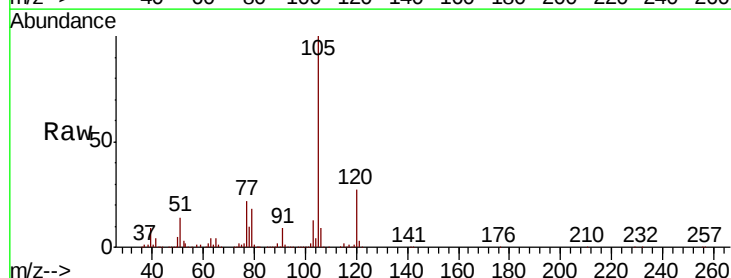
Acq: 16 Oct 2019 18:45

Tgt Ion:105 Resp: 3691089

Ion Ratio Lower Upper

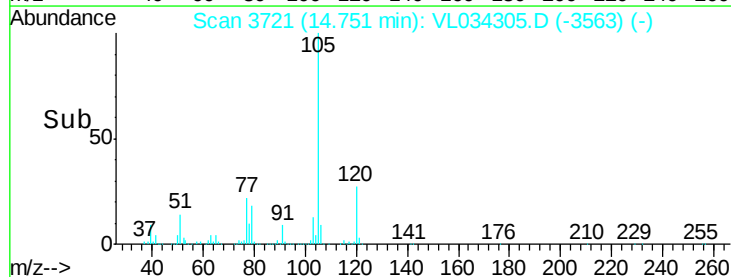
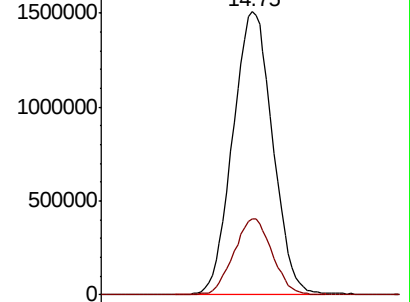
105 100

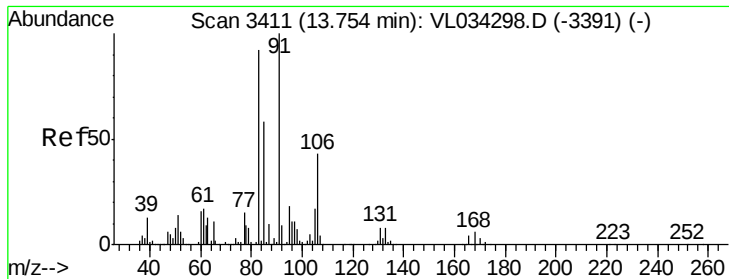
120 26.0 20.8 31.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





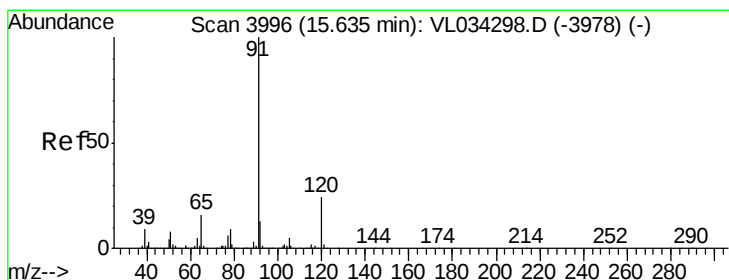
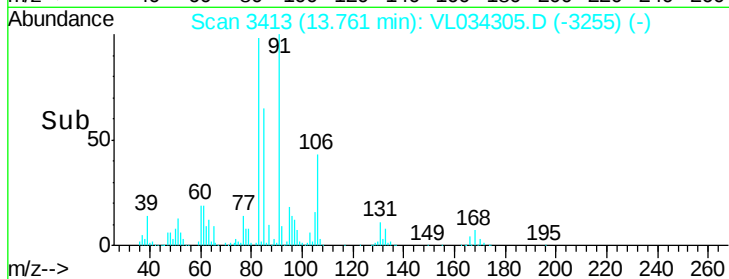
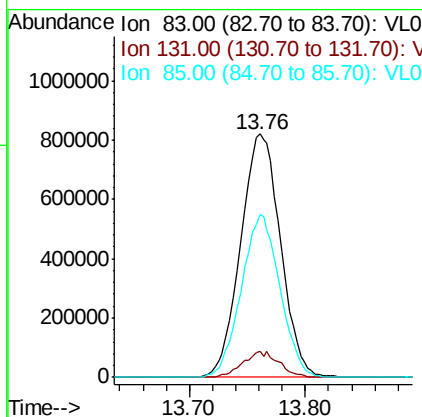
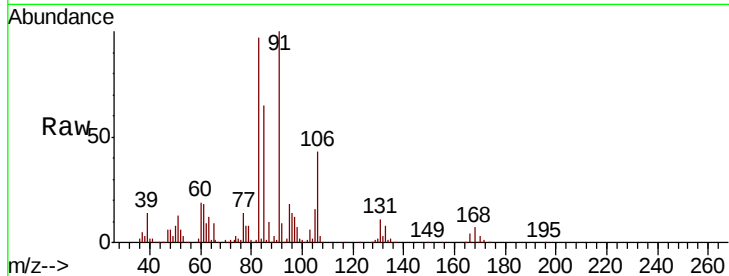
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.047 ppbv
 RT: 13.76 min Scan# 3413
 Delta R.T. 0.01 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101619

Tot Ion	Ratio	Lower	Upper
83	100		
131	9.9	4.8	14.4
85	65.2	32.5	97.4

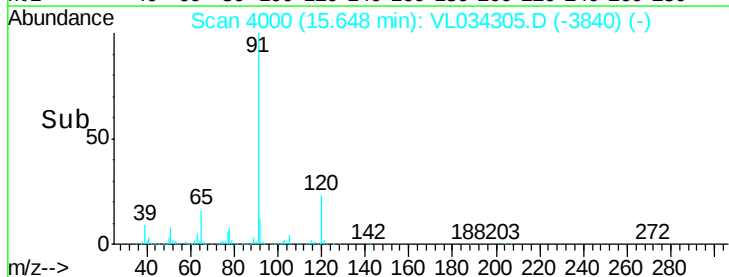
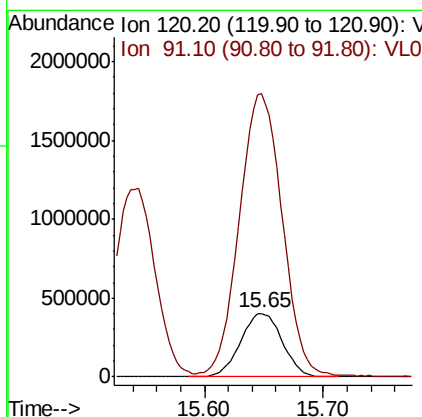
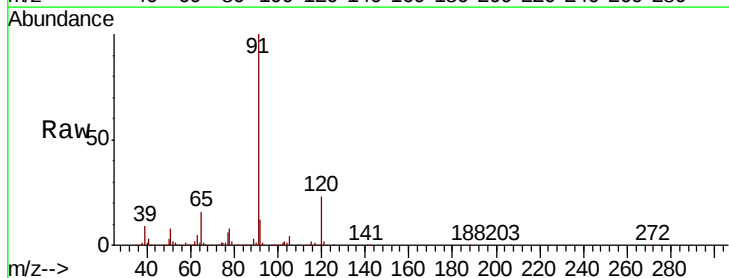
Manual Integrations
 APPROVED

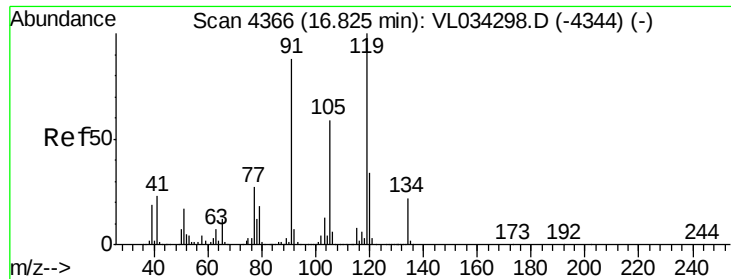
MMDadoda
 10/18/2019 3:04:18 PM



#64
 n-propylbenzene
 Concen: 9.537 ppbv
 RT: 15.65 min Scan# 4000
 Delta R.T. 0.01 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

Tgt Ion	Ratio	Lower	Upper
120	100		
91	461.5	374.9	562.3





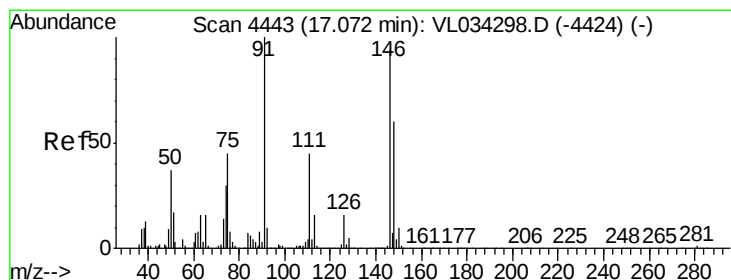
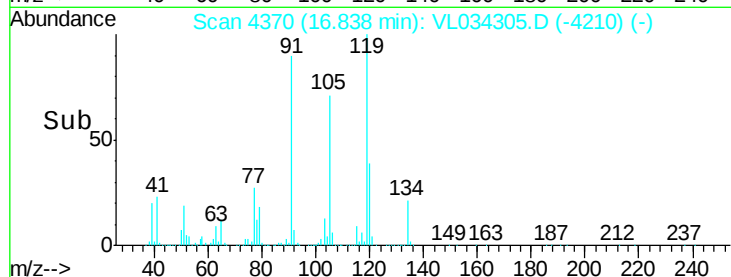
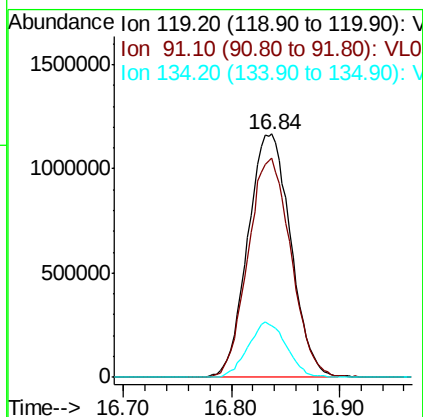
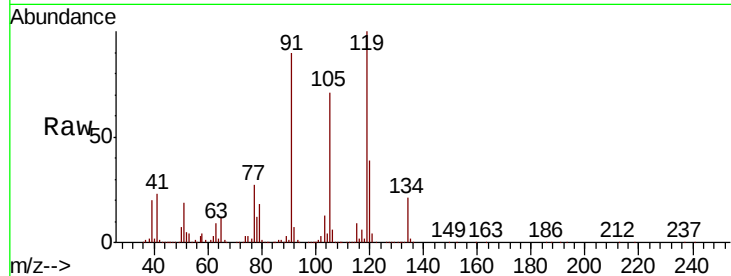
#65
tert-Butylbenzene
Concen: 9.089 ppbv
RT: 16.84 min Scan# 4370
Delta R.T. 0.01 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

Instrument :
MSVOA_L
ClientSampleId :
ICVVL101619

Tot Ion	Ratio	Lower	Upper
119	100		
91	90.4	71.4	107.0
134	20.4	15.9	23.9

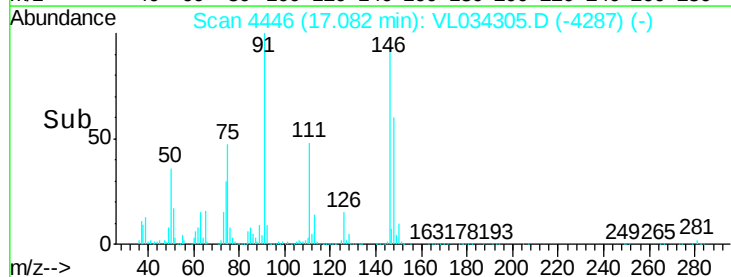
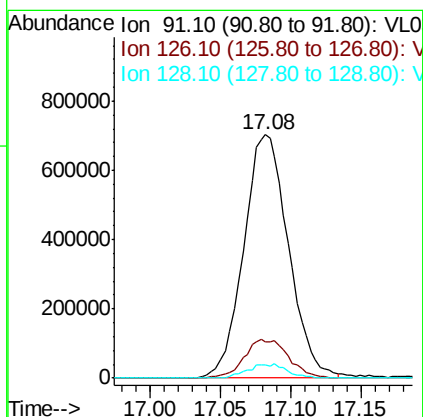
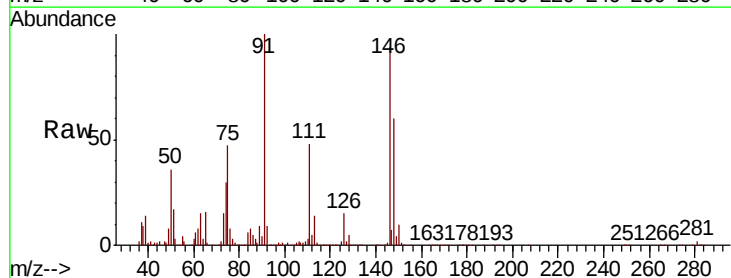
Manual Integrations
APPROVED

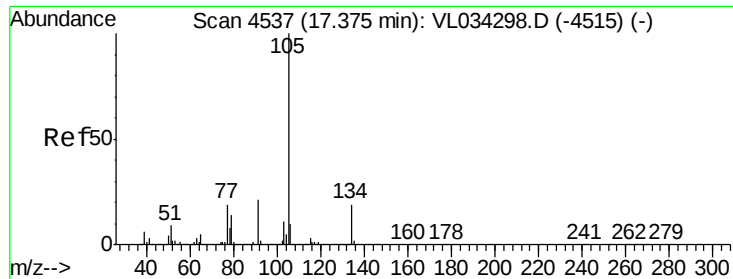
MMDadoda
10/18/2019 3:04:18 PM



#66
Benzyl Chloride
Concen: 11.085 ppbv
RT: 17.08 min Scan# 4446
Delta R.T. 0.01 min
Lab File: VL034305.D
Acq: 16 Oct 2019 18:45

Tgt Ion	Ratio	Lower	Upper
91	100		
126	16.0	12.9	19.3
128	5.3	4.3	6.5





#67

sec-Butylbenzene

Concen: 8.967 ppbv

RT: 17.38 min Scan# 4540

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101619

Tot Ion: 105 Resp: 4468598

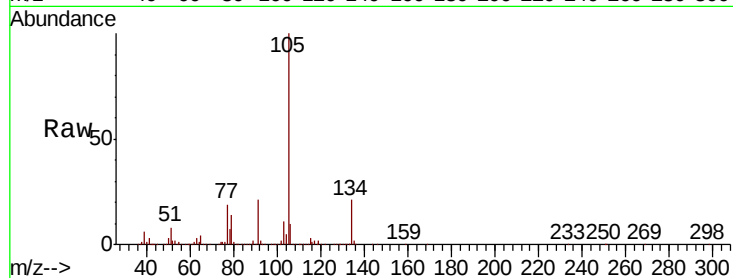
Ion Ratio Lower Upper

105 100

134 19.3 15.4 23.0

Manual Integrations
APPROVED

MMDadoda
10/18/2019 3:04:18 PM



Abundance Ion 105.10 (104.80 to 105.80): V

2000000 Ion 134.20 (133.90 to 134.90): V

17.38

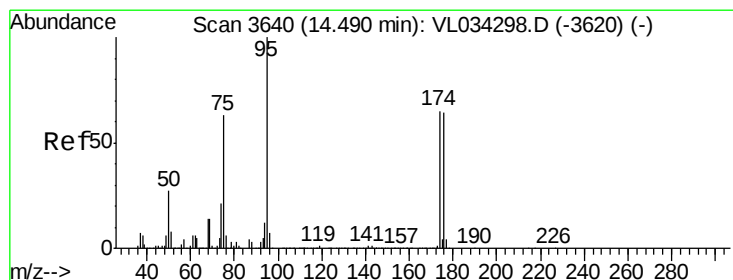
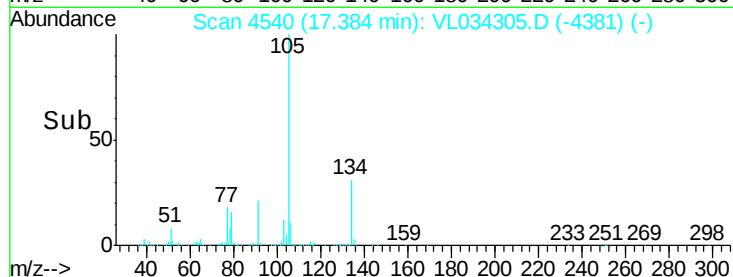
1500000

1000000

500000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.626 ppbv

RT: 14.50 min Scan# 3644

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

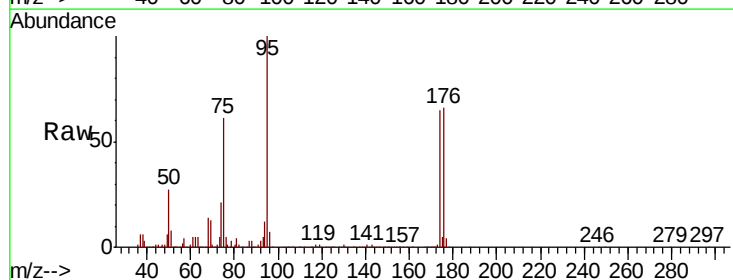
Tgt Ion: 95 Resp: 2045986

Ion Ratio Lower Upper

95 100

174 65.5 52.6 78.8

175 4.9 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

1200000 Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

14.50

1000000

800000

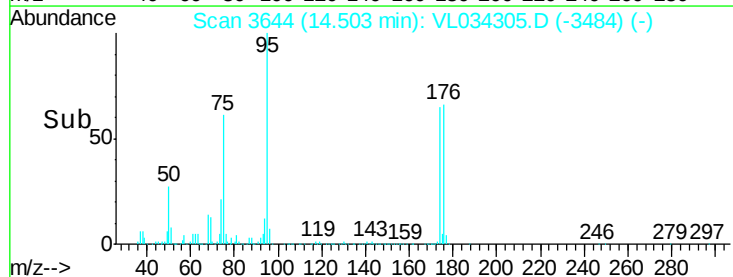
600000

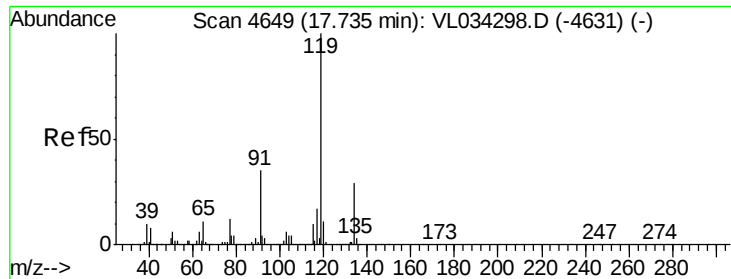
400000

200000

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Time-->





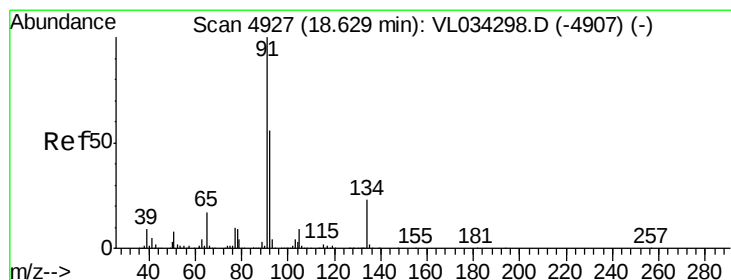
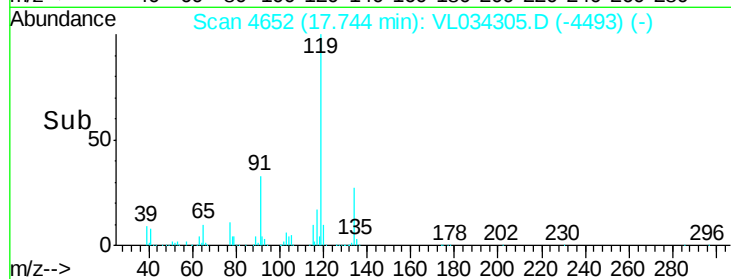
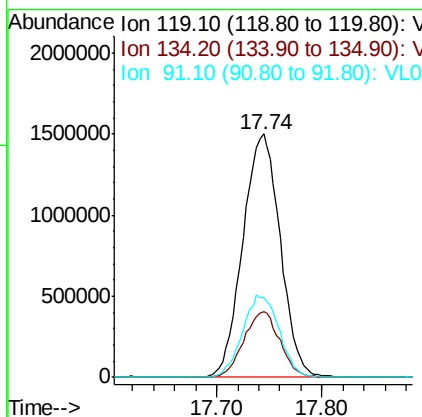
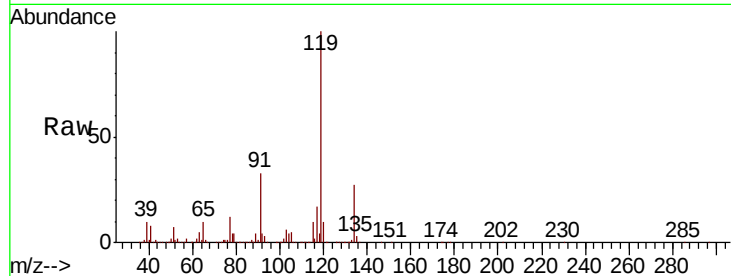
#69
 p-Isopropyltoluene
 Concen: 9.112 ppbv
 RT: 17.74 min Scan# 4652
 Delta R.T. 0.01 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101619

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.1	21.3	31.9
91	33.2	26.6	39.8

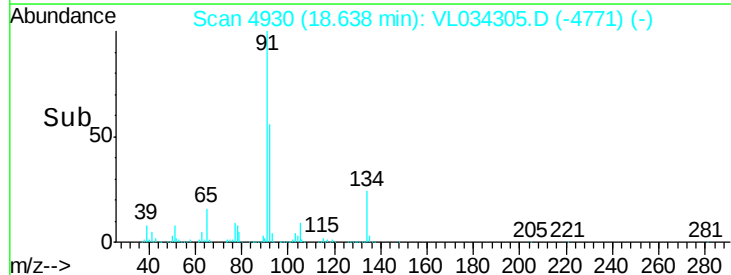
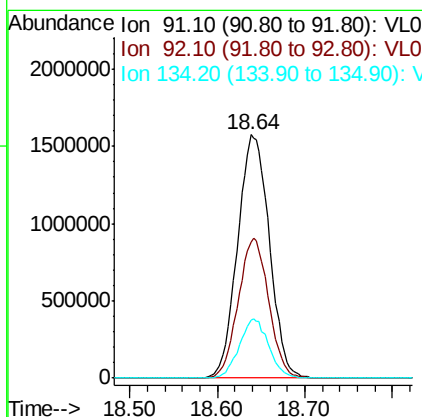
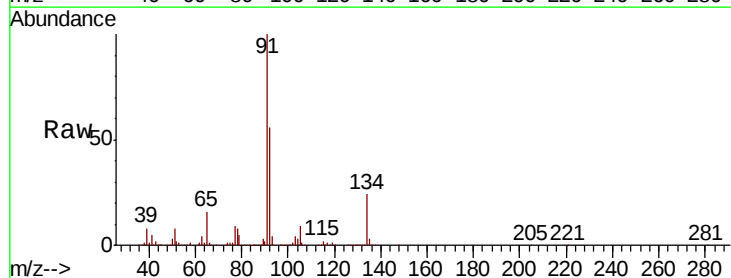
Manual Integrations
 APPROVED

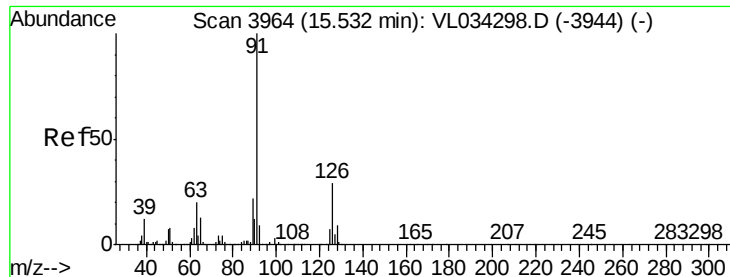
MMDadoda
 10/18/2019 3:04:18 PM



#70
 n-Butylbenzene
 Concen: 8.964 ppbv
 RT: 18.64 min Scan# 4930
 Delta R.T. 0.01 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.1	44.5	66.7
134	22.6	18.2	27.2





#71

2-Chlorotoluene

Concen: 9.480 ppbv

RT: 15.55 min Scan# 3968

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101619

Tot Ion: 91 Resp: 2937041

Ion Ratio Lower Upper

91 100

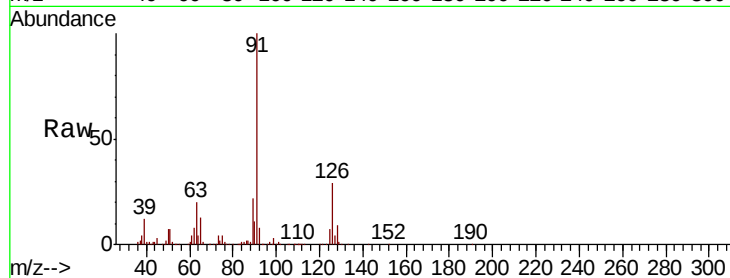
126 29.5 11.9 47.5

Manual Integrations

APPROVED

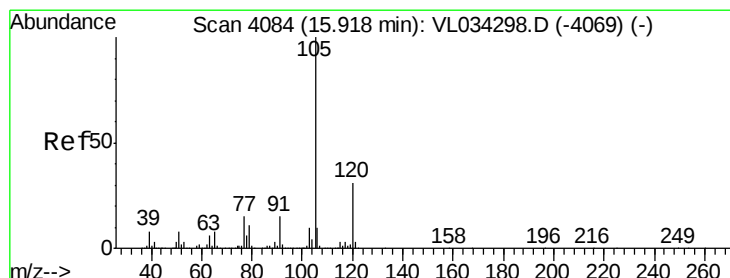
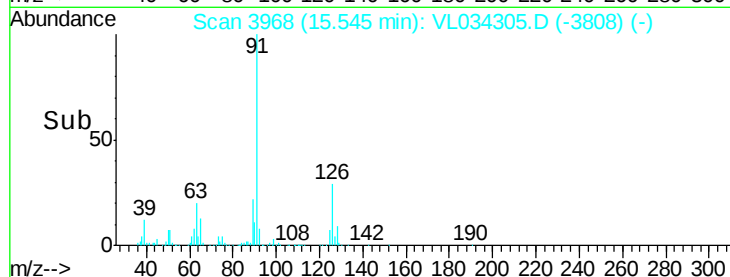
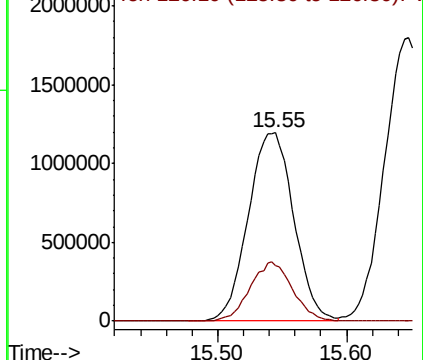
MMDadoda

10/18/2019 3:04:18 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.474 ppbv

RT: 15.92 min Scan# 4086

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Tgt Ion:105 Resp: 3223461

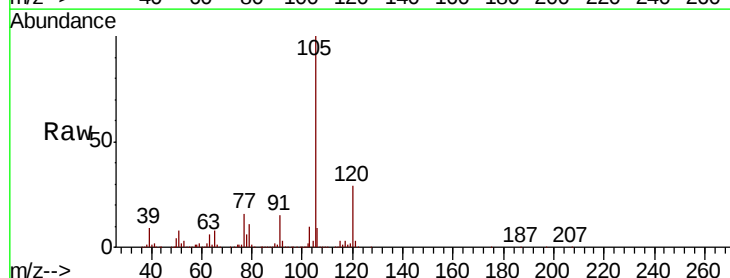
Ion Ratio Lower Upper

105 100

120 30.6 23.8 35.8

91 14.9 11.2 16.8

77 15.7 12.8 19.2

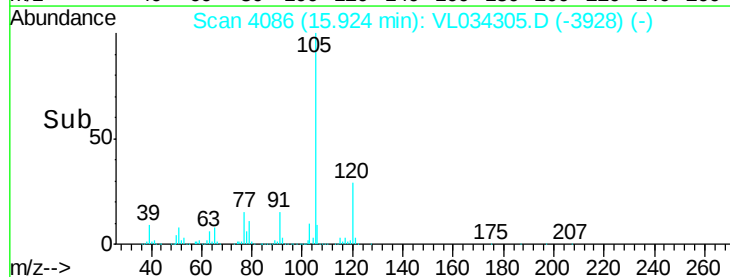
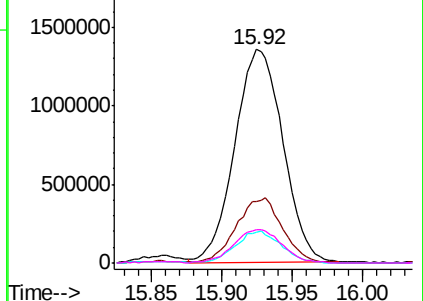


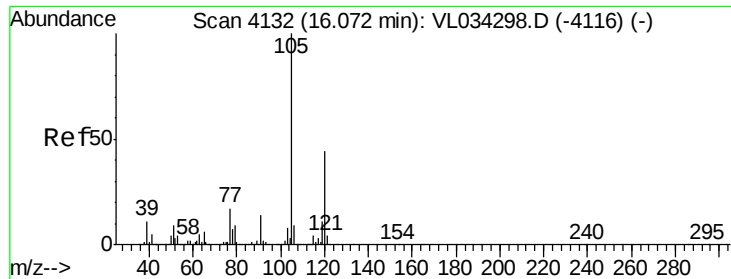
Abundance Ion 105.10 (104.80 to 105.80): V

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: 9.175 ppbv

RT: 16.09 min Scan# 4136

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

ClientSampleId :

ICVVL101619

Tot Ion:105 Resp: 3093053

Ion Ratio Lower Upper

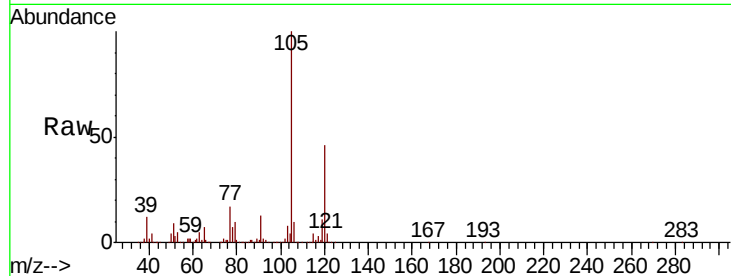
105 100

120 46.4 35.2 52.8

Manual Integrations
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MMDadoda

10/18/2019 3:04:18 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.09

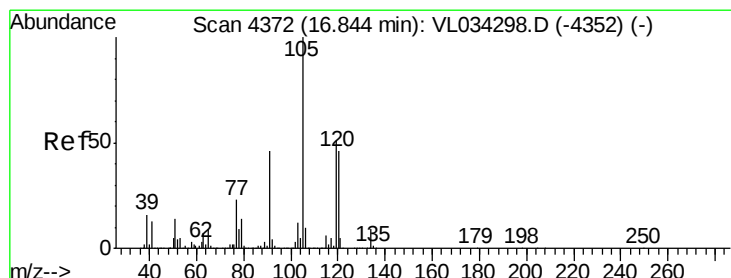
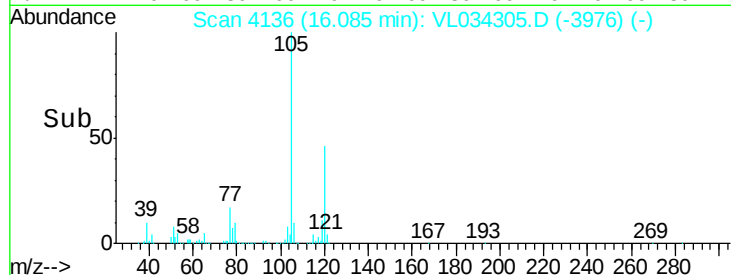
1500000

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 9.013 ppbv

RT: 16.85 min Scan# 4375

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Tgt Ion:105 Resp: 3168541

Ion Ratio Lower Upper

105 100

120 47.1 37.0 55.6

91 48.4 38.2 57.2

77 23.7 19.0 28.4

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

2000000

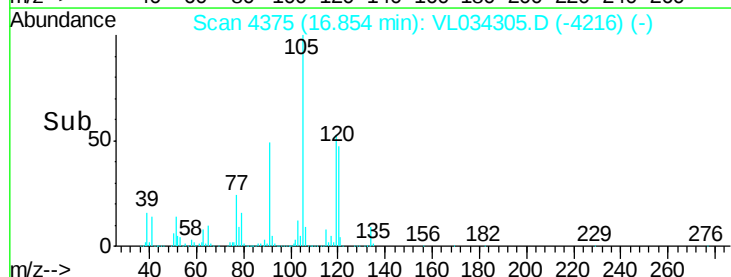
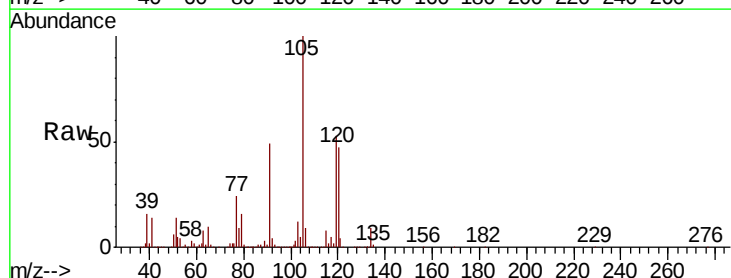
1500000

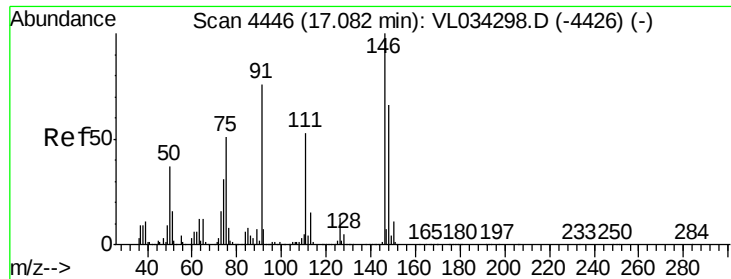
1000000

500000

0

Time-->





#75

1,3-Dichlorobenzene

Concen: 8.616 ppbv

RT: 17.09 min Scan# 4449

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

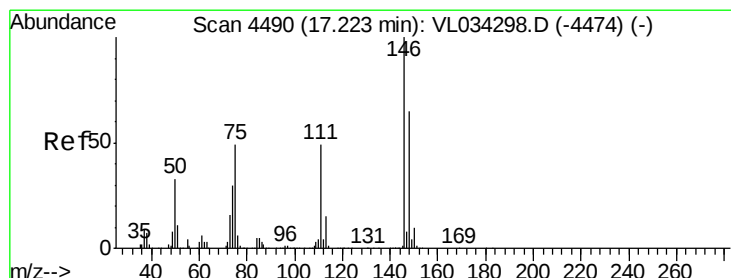
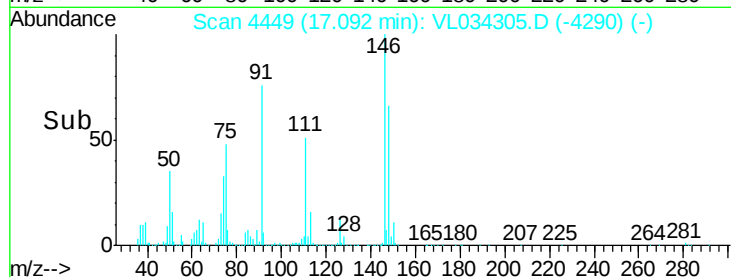
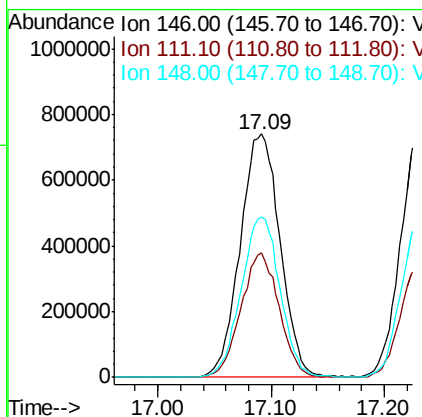
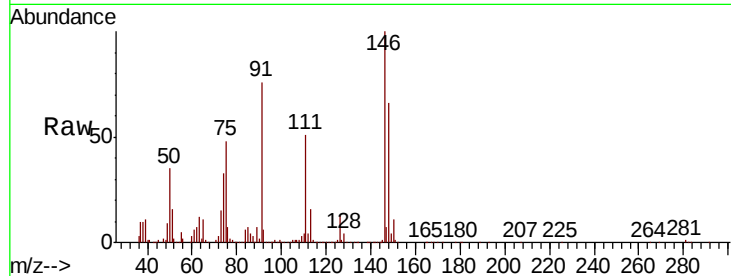
ClientSampleId :

ICVVL101619

Tot Ion:	146	Resp:	1818565
Ion	Ratio	Lower	Upper
146	100		
111	49.1	24.5	73.5
148	64.4	32.3	96.8

Manual Integrations
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10/18/2019 3:04:18 PM



#76

1,4-Dichlorobenzene

Concen: 8.852 ppbv

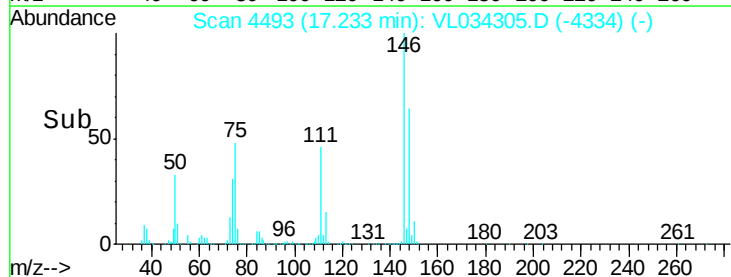
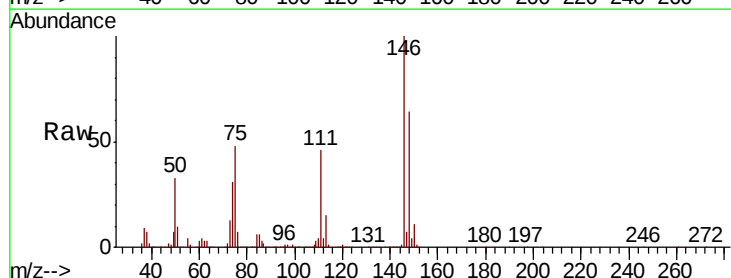
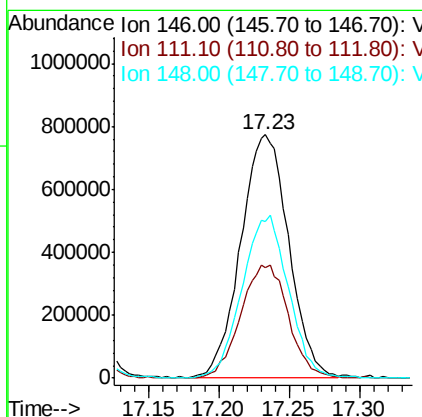
RT: 17.23 min Scan# 4493

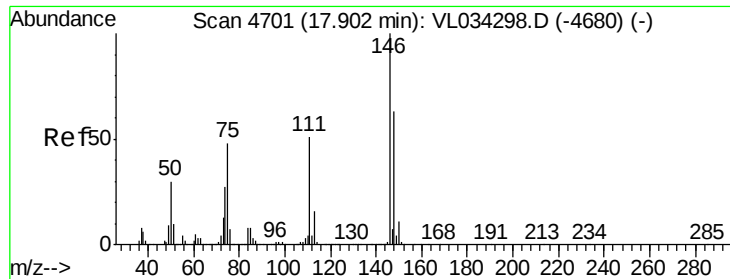
Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Tgt Ion:	146	Resp:	1825021
Ion	Ratio	Lower	Upper
146	100		
111	46.7	23.9	71.7
148	65.4	33.1	99.2





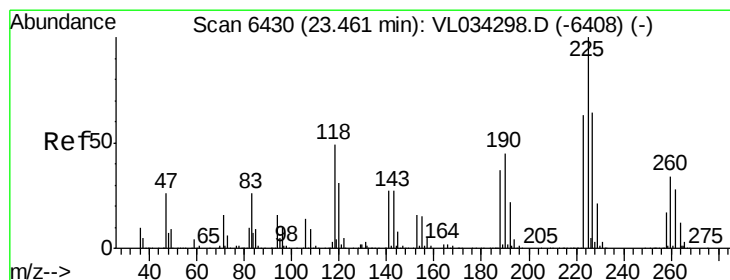
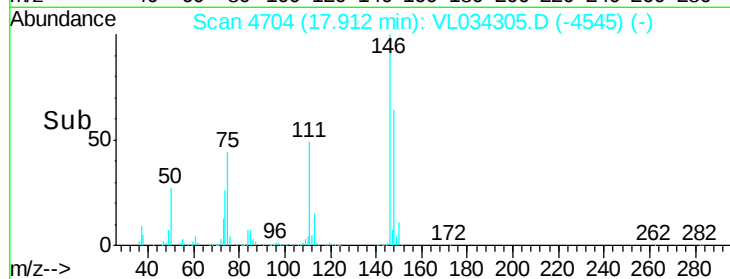
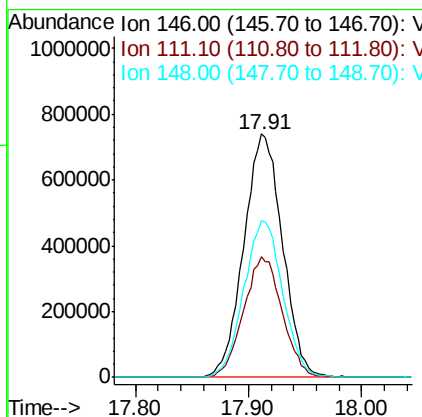
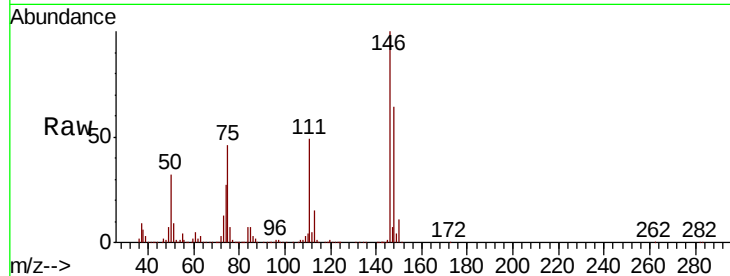
#77
 1,2-Dichlorobenzene
 Concen: 8.486 ppbv
 RT: 17.91 min Scan# 4704
 Delta R.T. 0.01 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101619

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.6	25.1	75.3
148	64.9	32.3	96.8

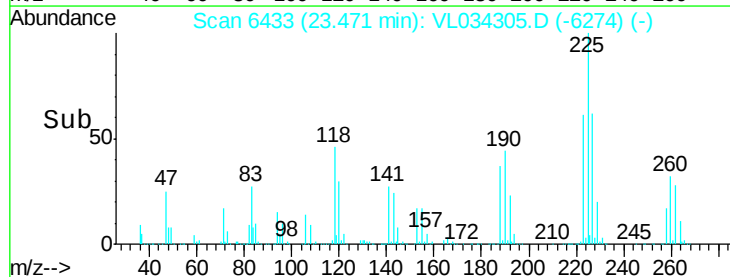
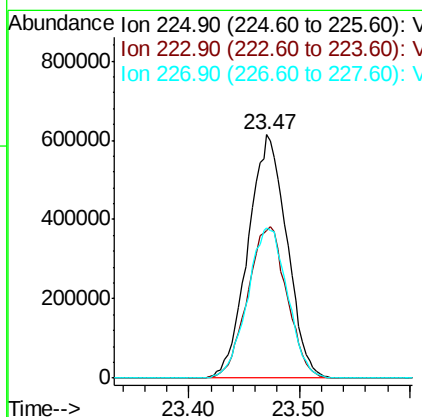
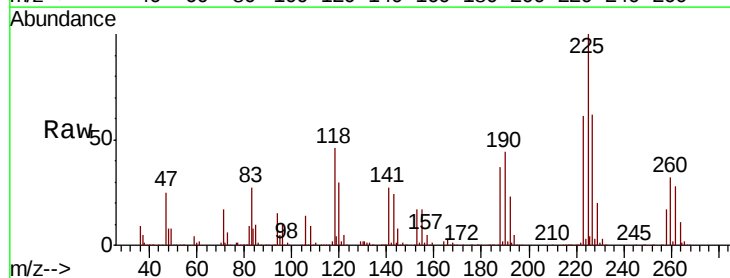
Manual Integrations
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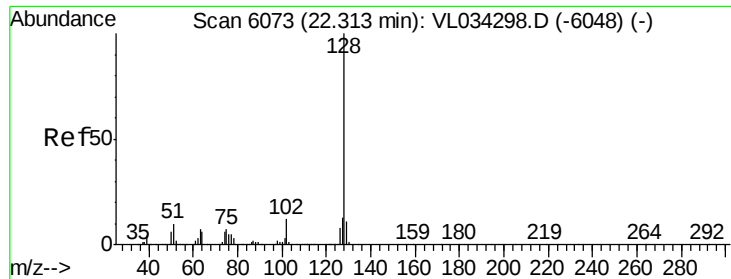
MMDadoda
 10/18/2019 3:04:18 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.727 ppbv
 RT: 23.47 min Scan# 6433
 Delta R.T. 0.01 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.1	50.8	76.2
227	63.5	51.5	77.3





#79

Naphthalene

Concen: 12.024 ppbv

RT: 22.32 min Scan# 6076

Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Instrument :

MSVOA_L

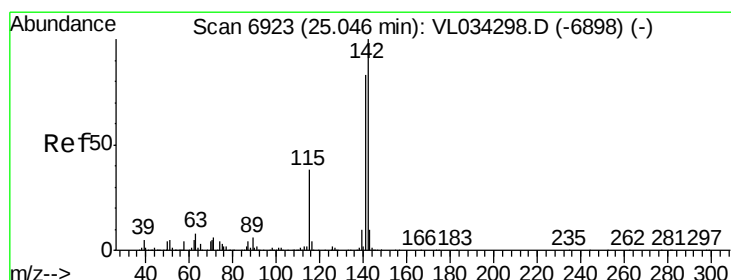
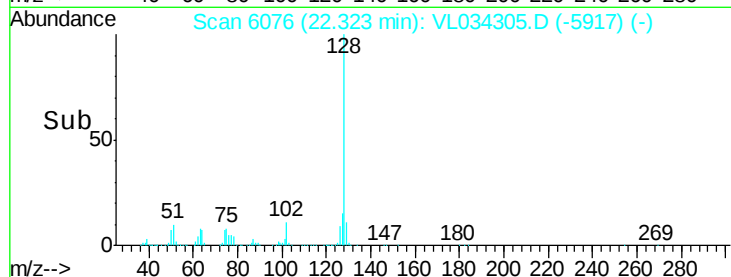
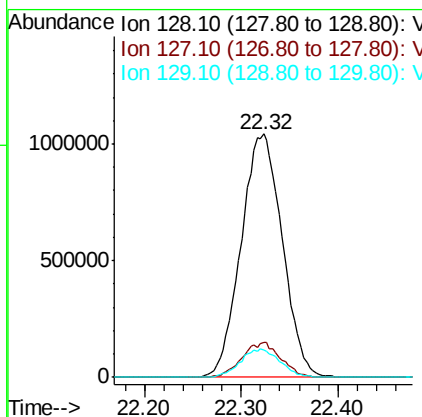
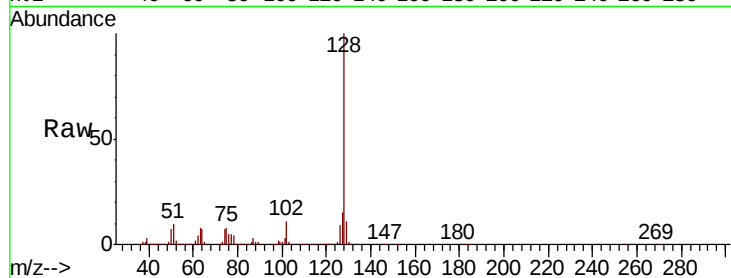
ClientSampleId :

ICVVL101619

Tot Ion:	128	Resp:	3087841
Ion	Ratio	Lower	Upper
128	100		
127	14.5	10.2	15.4
129	11.2	8.9	13.3

Manual Integrations
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10/18/2019 3:04:18 PM



#80

Naphthalene, 2-methyl-

Concen: 12.704 ppbv

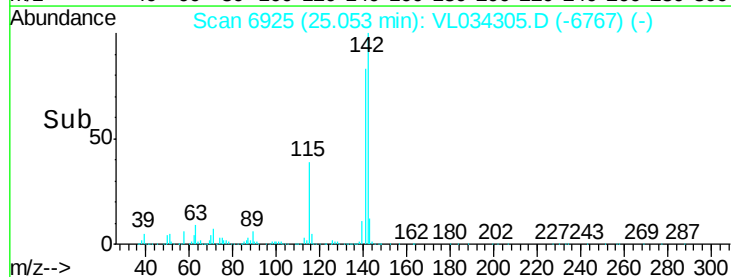
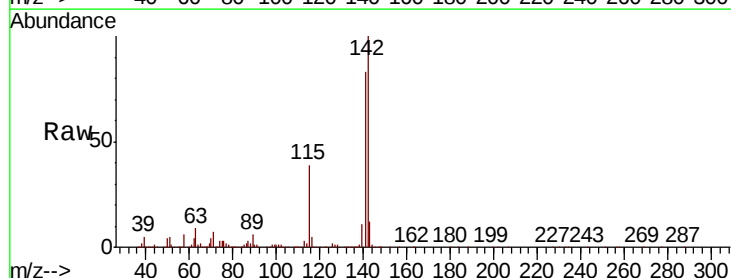
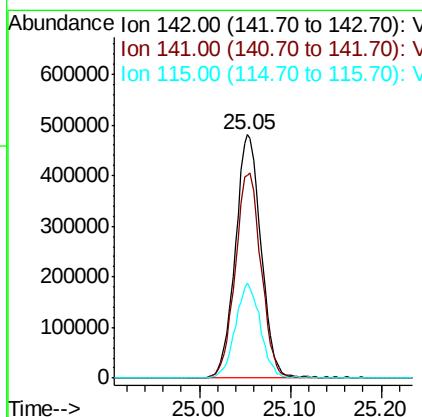
RT: 25.05 min Scan# 6925

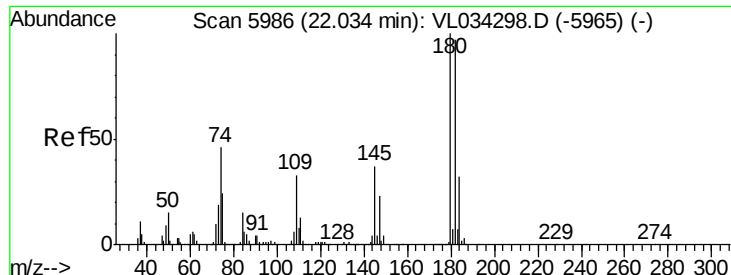
Delta R.T. 0.01 min

Lab File: VL034305.D

Acq: 16 Oct 2019 18:45

Tgt Ion:	142	Resp:	943033
Ion	Ratio	Lower	Upper
142	100		
141	85.0	65.7	98.5
115	38.1	30.9	46.3





#81
 1,2,4-Trichlorobenzene
 Concen: 10.749 ppbv
 RT: 22.05 min Scan# 5990
 Delta R.T. 0.01 min
 Lab File: VL034305.D
 Acq: 16 Oct 2019 18:45

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101619

Tot Ion:	180	Resp:	1803016
Ion	Ratio	Lower	Upper
180	100		
182	96.9	77.8	116.8
184	31.4	25.4	38.2

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 3:04:18 PM

