

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052219\
 Data File : VL033739.D
 Acq On : 22 May 2019 9:56
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 5/28/2019 2:50:39 AM

Quant Time: May 23 04:42:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 1
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	1042342	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2424133	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2891717m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2282608	9.74	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.40%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	1668569	7.596	ppbv 99
3) Chlorodifluoromethane	3.01	51	1149927	9.631	ppbv 99
4) Chloromethane	3.17	50	655201	9.594	ppbv 97
5) Vinyl Chloride	3.29	62	650406	9.350	ppbv 100
6) Bromomethane	3.51	94	419384	9.881	ppbv 99
7) Chloroethane	3.59	64	242878	9.824	ppbv 97
8) Dichlorotetrafluoroethane	3.21	85	1693889	9.565	ppbv 99
9) Propene	3.03	41	491823	9.685	ppbv 100
10) Heptane	8.24	43	1318931	9.171	ppbv 99
11) Trichlorofluoromethane	4.00	101	2024403	9.656	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.54	101	1357903	9.275	ppbv 100
13) Ethanol	3.64	45	91092m	5.550	ppbv
14) Bromoethene	3.78	108	543351	10.095	ppbv 100
15) Acetone	3.89	43	1232795	8.524	ppbv 100
16) 1,3-Butadiene	3.36	39	577742	10.032	ppbv 98
17) tert-Butyl alcohol	4.35	59	1136750	9.721	ppbv 100
18) 1,1-Dichloroethene	4.35	96	597143	9.663	ppbv 98
19) Isopropyl Alcohol	4.02	45	794436	8.520	ppbv 99
20) Methylene Chloride	4.40	84	505496	9.078	ppbv 98
21) Allyl Chloride	4.47	41	884201	9.802	ppbv 100
22) trans-1,2-Dichloroethene	4.96	96	614291	9.698	ppbv 97
23) Vinyl Acetate	5.15	43	1921681	10.078	ppbv 99
24) 1,1-Dichloroethane	5.08	63	1353992	9.341	ppbv 98
25) Ethyl Acetate	5.76	43	2325639	9.154	ppbv 99
26) Hexane	5.77	57	1011677	9.263	ppbv 98
27) Carbon Disulfide	4.61	76	1533433	10.234	ppbv 99
28) Methyl tert-Butyl Ether	5.10	73	1765445	9.916	ppbv 99
29) Chloroform	5.84	83	1762148	8.759	ppbv 99
30) Cyclohexane	7.24	84	849567	9.253	ppbv 98
31) cis-1,2-Dichloroethene	5.63	61	1052046	9.715	ppbv 99
32) 1,1,1-Trichloroethane	6.61	97	1837285	9.146	ppbv 100
34) 2-Butanone	5.32	43	1544572	10.279	ppbv 99
35) Carbon Tetrachloride	7.13	117	1943130	10.007	ppbv 98
36) Benzene	7.00	78	2113808	9.586	ppbv 100
37) 1,2-Dichloroethane	6.41	62	1352363	9.507	ppbv 100
38) Trichloroethene	7.95	130	882740	10.788	ppbv 96
39) 1,2-Dichloropropane	7.73	63	796386	9.687	ppbv 99
40) 1,4-Dioxane	7.95	88	294332	8.558	ppbv # 96
41) Tetrahydrofuran	6.14	42	851455	10.114	ppbv 99
42) Bromodichloromethane	7.91	83	1946735	9.997	ppbv 97
43) Methyl Methacrylate	8.13	69	866263	10.675	ppbv 99

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Manual Integrations
 APPROVED

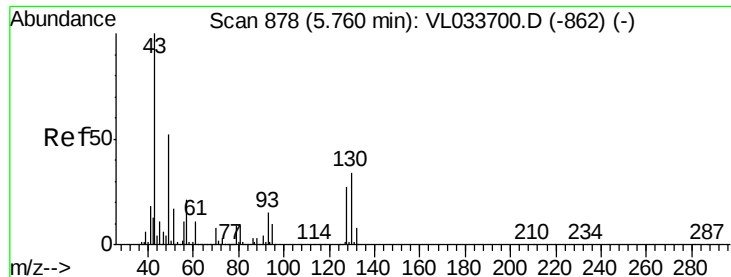
MMDadoda
 5/28/2019 2:50:39 AM

Quant Time: May 23 04:42:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 1
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.98	57	3587055	9.625	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	1191673	11.583	ppbv	98
46) cis-1,3-Dichloropropene	8.83	75	1320550	10.962	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	1007455	10.787	ppbv	99
48) Dibromochloromethane	10.44	129	1869196	11.551	ppbv	100
49) Bromoform	13.19	173	1673098	12.287	ppbv	99
50) 4-Methyl-2-Pentanone	8.86	43	2320962	10.042	ppbv	99
51) 2-Hexanone	10.26	43	2141802	11.874	ppbv #	99
52) Tetrachloroethene	11.37	164	909336	11.731	ppbv	98
53) Toluene	9.94	91	2786284	11.715	ppbv	100
54) 1,2-Dibromoethane	10.75	107	1586604	11.132	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.27	131	1250859	9.348	ppbv	95
57) Chlorobenzene	12.29	112	2156499	9.060	ppbv	100
58) Ethyl Benzene	12.86	91	3852576	10.061	ppbv	99
59) m/p-Xylene	13.14	91	6392959m	19.098	ppbv	
60) o-Xylene	13.84	91	3259734	9.660	ppbv	99
61) Styrene	13.68	104	2416221	10.635	ppbv	100
62) Isopropylbenzene	14.82	105	4376530	9.631	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.83	83	2286099	9.316	ppbv	99
64) n-propylbenzene	15.71	120	1159818	9.867	ppbv	98
65) tert-Butylbenzene	16.90	119	4011558	9.669	ppbv	99
66) Benzyl Chloride	17.15	91	2103842	10.646	ppbv	100
67) sec-Butylbenzene	17.45	105	5615031	9.669	ppbv	100
69) p-Isopropyltoluene	17.81	119	4695171	9.782	ppbv	99
70) n-Butylbenzene	18.70	91	4839544	9.402	ppbv	100
71) 2-Chlorotoluene	15.61	91	3326887	9.868	ppbv	100
72) 4-Ethyltoluene	15.99	105	3904477	10.120	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	3719601	9.881	ppbv	97
74) 1,2,4-Trimethylbenzene	16.92	105	3833572	9.357	ppbv	97
75) 1,3-Dichlorobenzene	17.15	146	2213105	8.815	ppbv	100
76) 1,4-Dichlorobenzene	17.30	146	2192874	9.190	ppbv	100
77) 1,2-Dichlorobenzene	17.98	146	2172891	9.211	ppbv	99
78) Hexachloro-1,3-Butadiene	23.53	225	1538988	8.629	ppbv	99
79) Naphthalene	22.40	128	3098433	8.142	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	1379588	9.541	ppbv	99
81) 1,2,4-Trichlorobenzene	22.12	180	1760851	7.902	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.01 min

Lab File: VL033739.D

Acq: 22 May 2019 9:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 49 Resp: 1042342

Ion Ratio Lower Upper

49 100

128 50.1 25.2 75.6

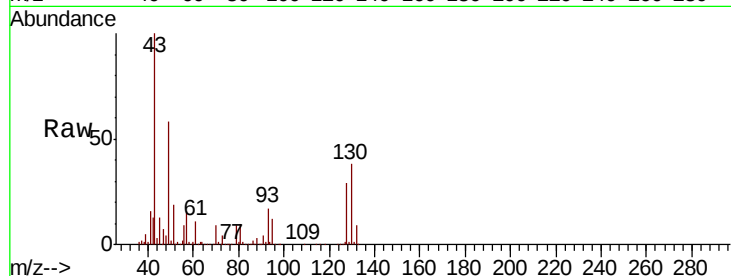
130 64.7 32.5 97.5

Manual Integrations

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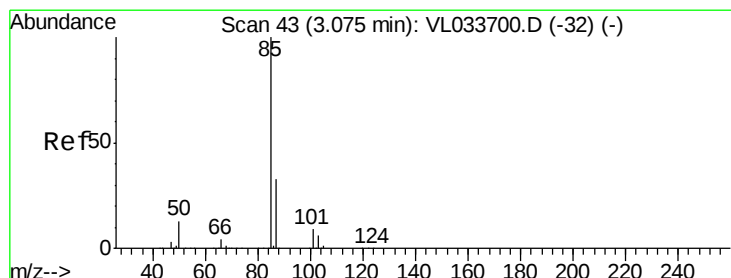
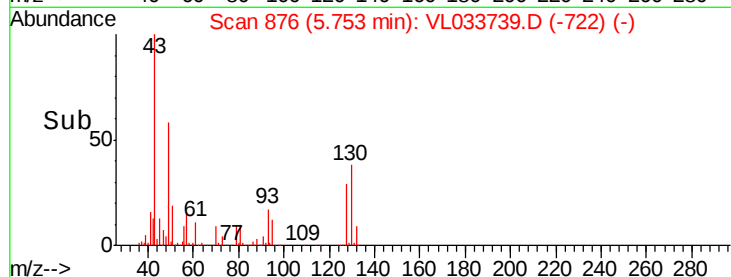
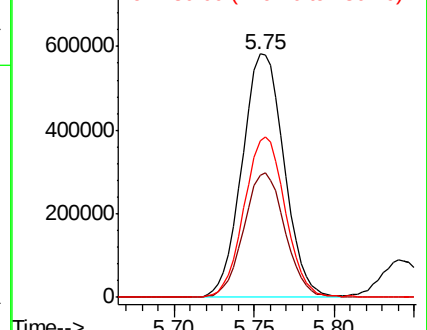
5/28/2019 2:50:39 AM



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: 7.596 ppbv

RT: 3.07 min Scan# 42

Delta R.T. -0.00 min

Lab File: VL033739.D

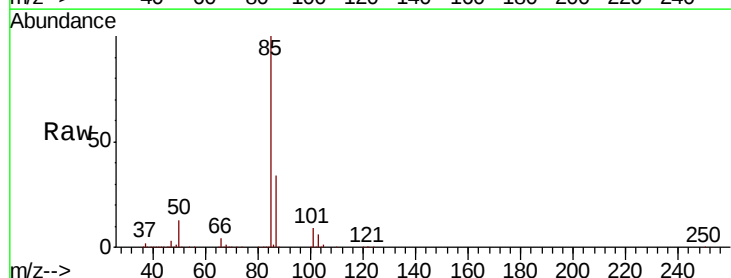
Acq: 22 May 2019 9:56

Tgt Ion: 85 Resp: 1668569

Ion Ratio Lower Upper

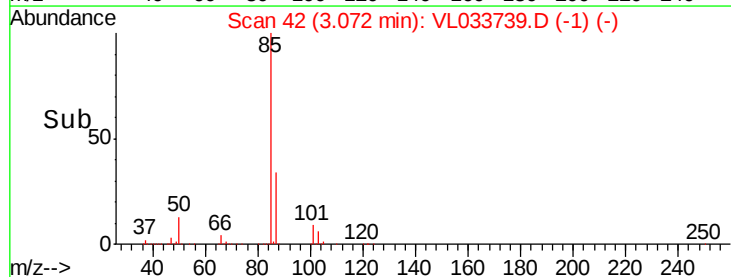
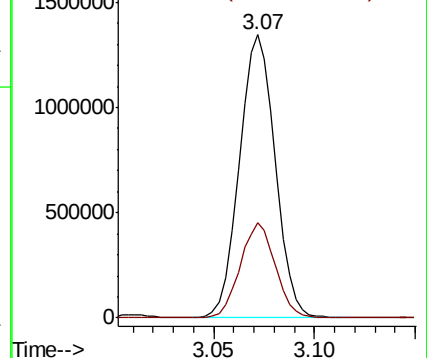
85 100

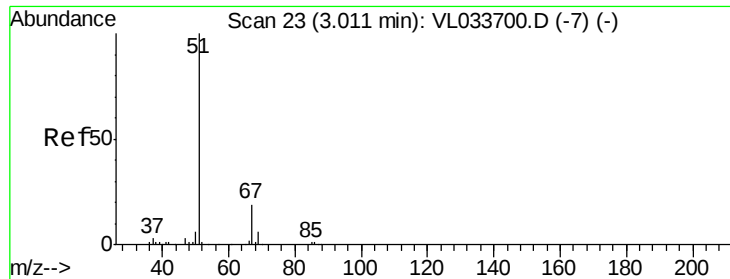
87 33.5 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





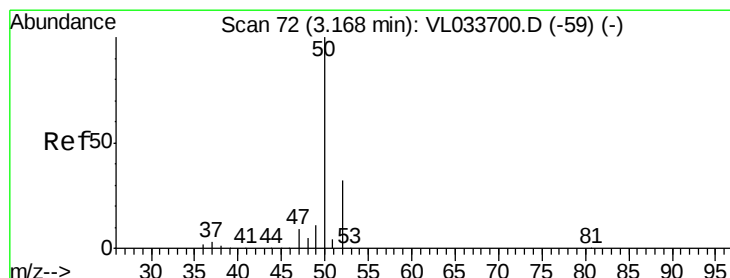
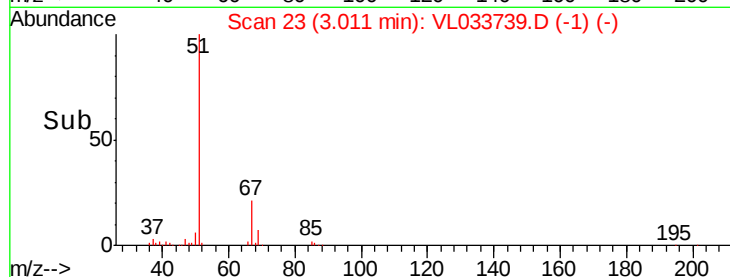
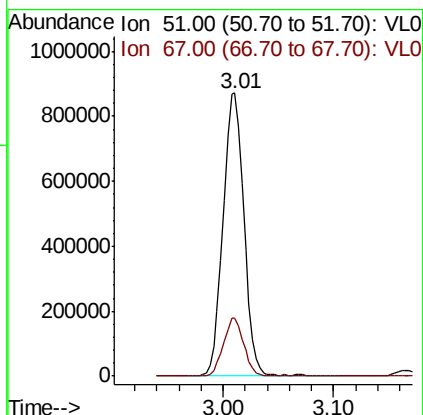
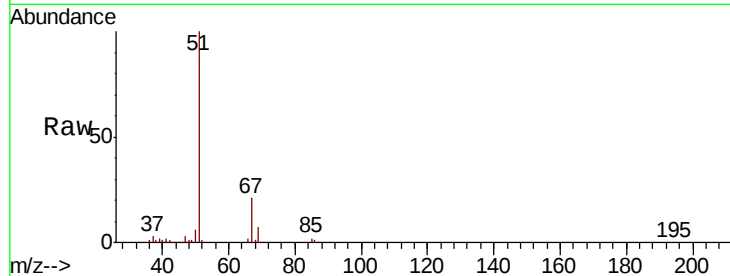
#3
Chlorodifluoromethane
Concen: 9.631 ppbv
RT: 3.01 min Scan# 23
Delta R.T. 0.00 min
Lab File: VL033739.D
Acq: 22 May 2019 9:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 51 Resp: 1149927
Ion Ratio Lower Upper
51 100
67 20.0 15.6 23.4

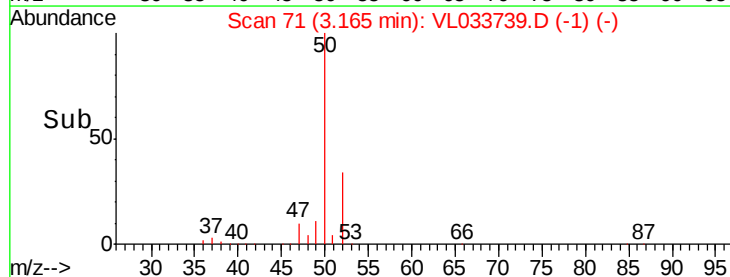
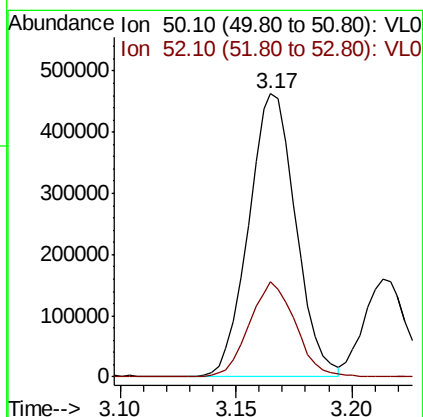
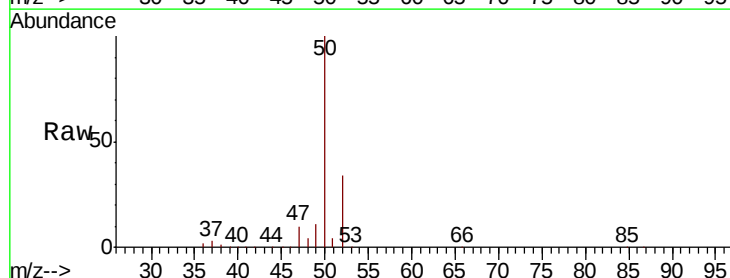
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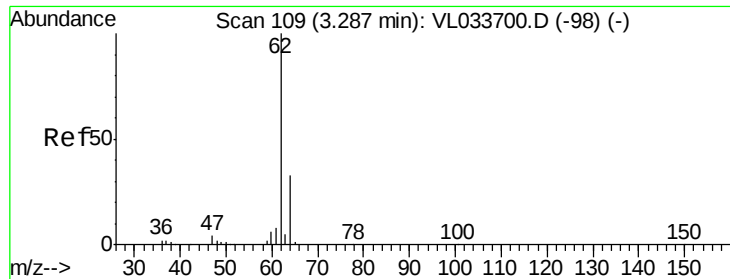
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5/28/2019 2:50:39 AM



#4
Chloromethane
Concen: 9.594 ppbv
RT: 3.17 min Scan# 71
Delta R.T. -0.00 min
Lab File: VL033739.D
Acq: 22 May 2019 9:56

Tgt Ion: 50 Resp: 655201
Ion Ratio Lower Upper
50 100
52 33.7 25.7 38.5





#5

Vinyl Chloride

Concen: 9.350 ppbv

RT: 3.29 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL033739.D

Acq: 22 May 2019 9:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 650406

Ion Ratio Lower Upper

62 100

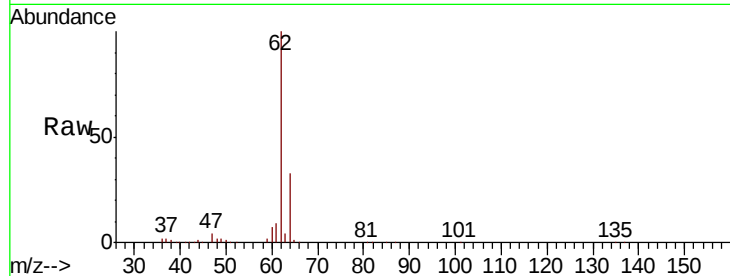
64 33.1 26.4 39.6

Manual Integrations

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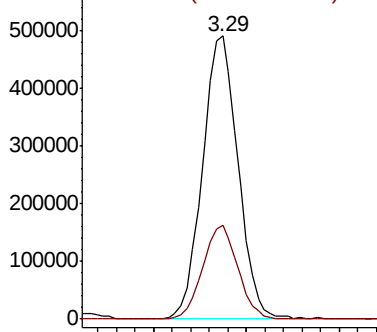
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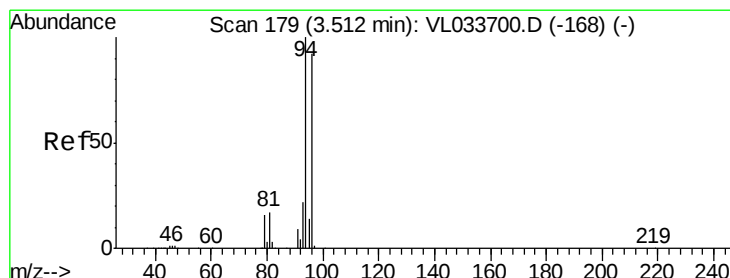
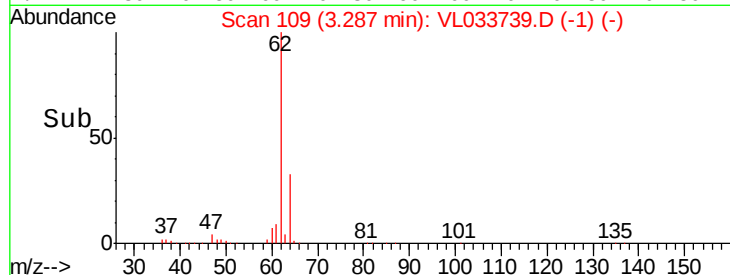


Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



Time-->



#6

Bromomethane

Concen: 9.881 ppbv

RT: 3.51 min Scan# 178

Delta R.T. -0.00 min

Lab File: VL033739.D

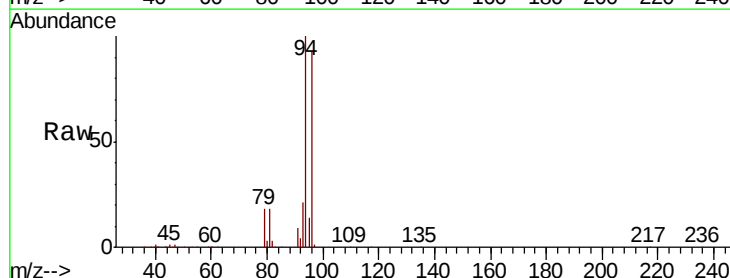
Acq: 22 May 2019 9:56

Tgt Ion: 94 Resp: 419384

Ion Ratio Lower Upper

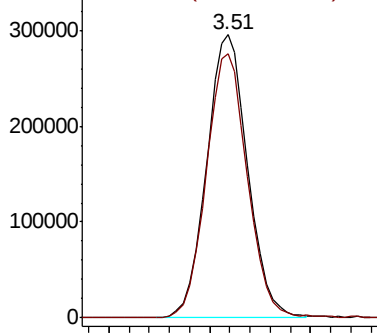
94 100

96 93.0 73.6 110.4

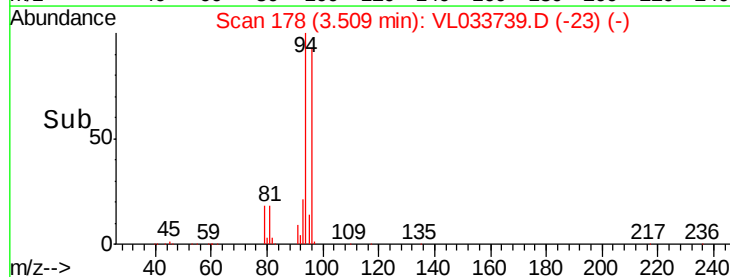


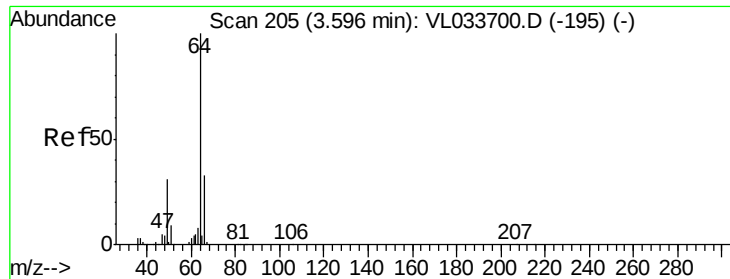
Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



Time-->





#7

Chloroethane

Concen: 9.824 ppbv

RT: 3.59 min Scan# 204

Delta R.T. -0.00 min

Lab File: VL033739.D

Acq: 22 May 2019 9:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 242878

Ion Ratio Lower Upper

64 100

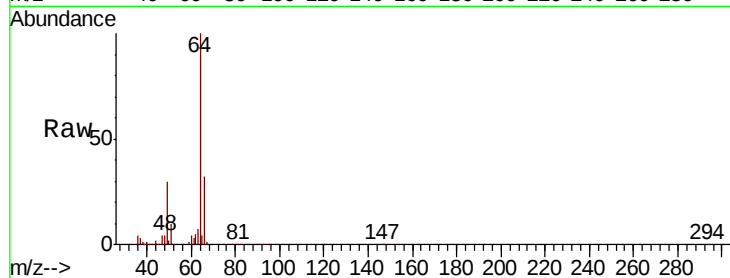
66 31.5 26.6 40.0

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.59

200000

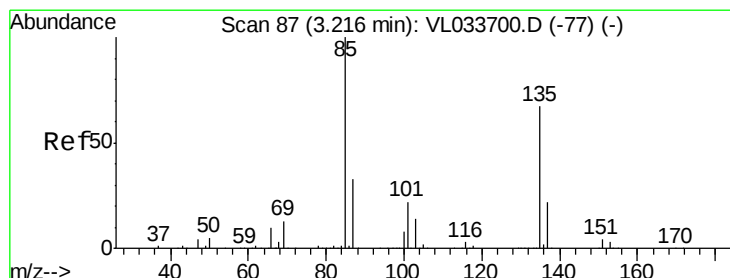
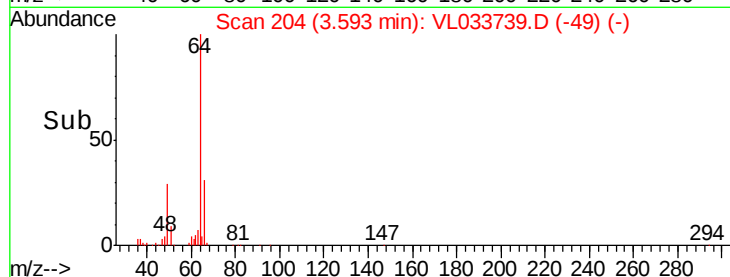
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.565 ppbv

RT: 3.21 min Scan# 86

Delta R.T. -0.00 min

Lab File: VL033739.D

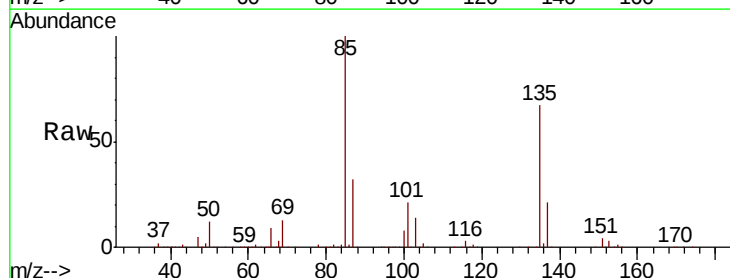
Acq: 22 May 2019 9:56

Tgt Ion: 85 Resp: 1693889

Ion Ratio Lower Upper

85 100

135 68.6 54.5 81.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.21

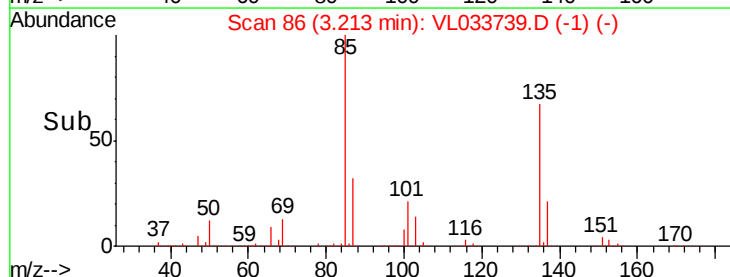
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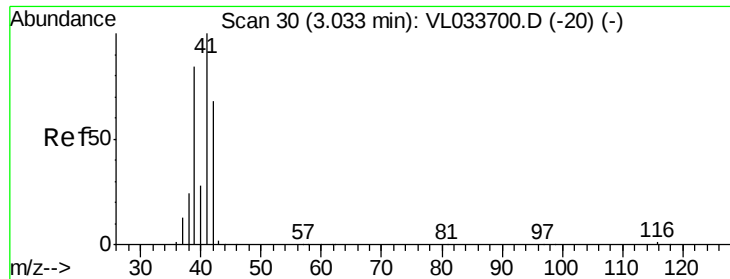
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Time-->





#9

Propene

Concen: 9.685 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.00 min

Lab File: VL033739.D

Acq: 22 May 2019 9:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 491823

Ion Ratio Lower Upper

41 100

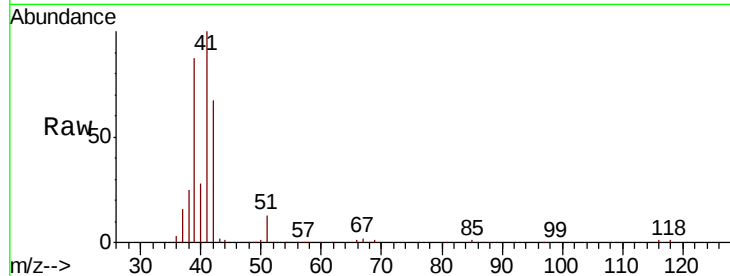
42 70.3 56.1 84.1

Manual Integrations

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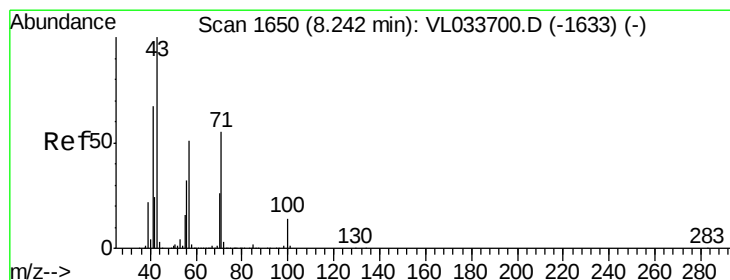
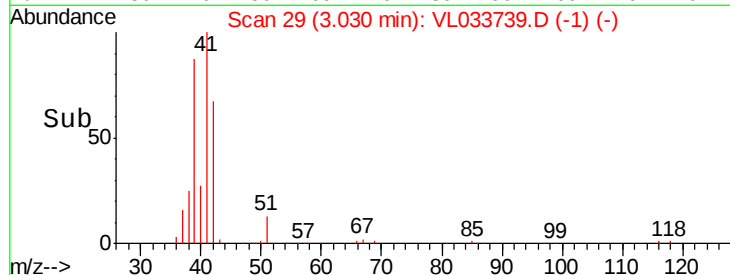
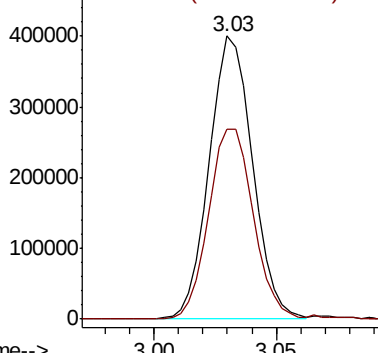
MMDadoda

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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 9.171 ppbv

RT: 8.24 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VL033739.D

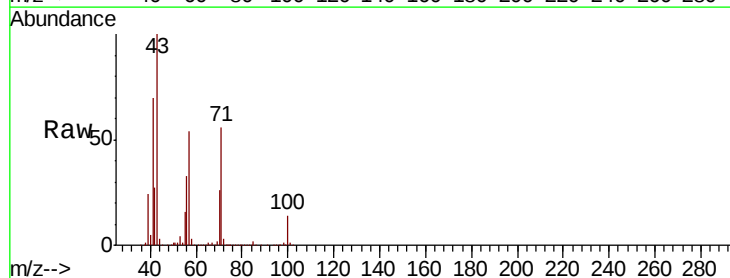
Acq: 22 May 2019 9:56

Tgt Ion: 43 Resp: 1318931

Ion Ratio Lower Upper

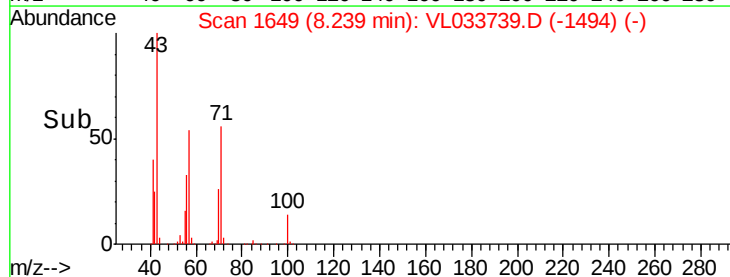
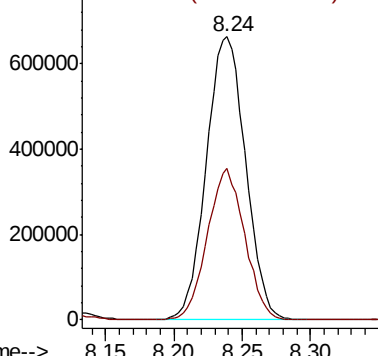
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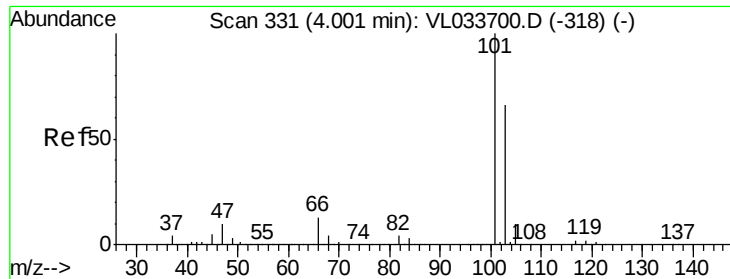
57 51.0 41.4 62.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





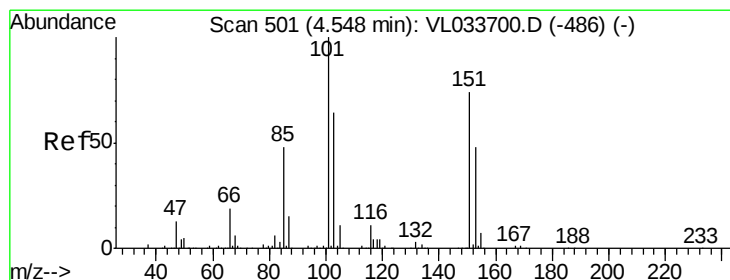
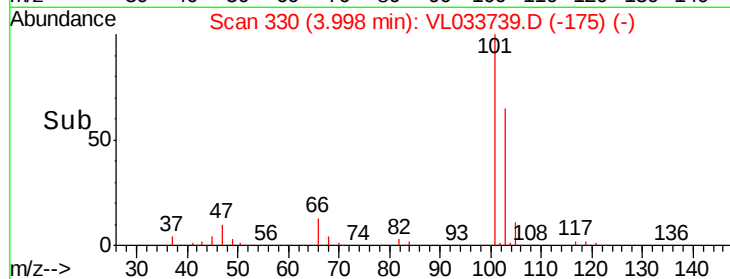
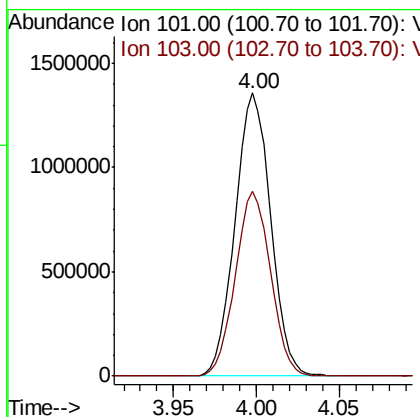
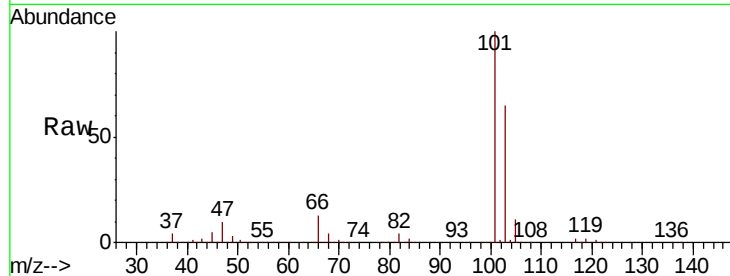
#11
 Trichlorofluoromethane
 Concen: 9.656 ppbv
 RT: 4.00 min Scan# 330
 Delta R.T. -0.00 min
 Lab File: VL033739.D
 Acq: 22 May 2019 9:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:101 Resp: 2024403
 Ion Ratio Lower Upper
 101 100
 103 65.3 52.6 78.8

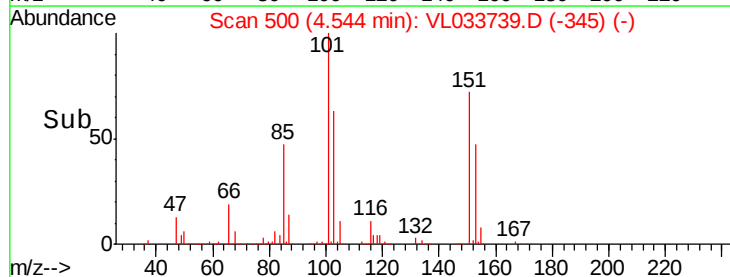
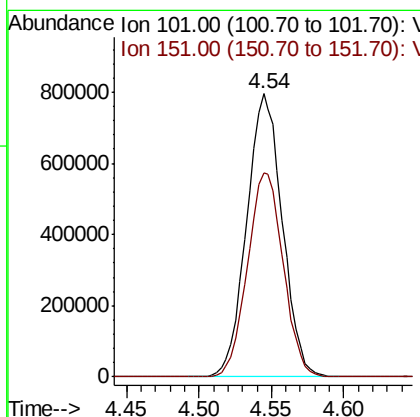
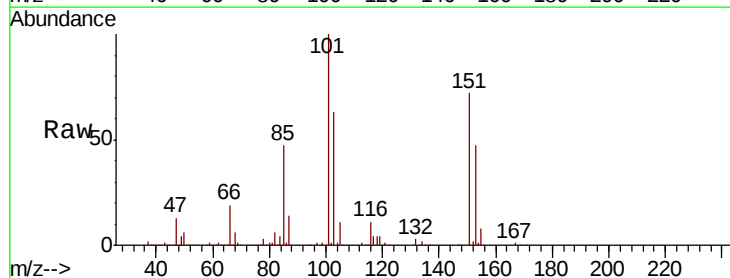
Manual Integrations
 APPROVED

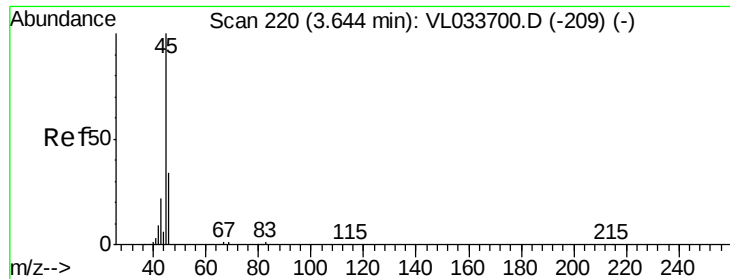
MMDadoda
 5/28/2019 2:50:39 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.275 ppbv
 RT: 4.54 min Scan# 500
 Delta R.T. -0.00 min
 Lab File: VL033739.D
 Acq: 22 May 2019 9:56

Tgt Ion:101 Resp: 1357903
 Ion Ratio Lower Upper
 101 100
 151 72.6 58.2 87.4





#13

Ethanol

Concen: 5.550 ppbv m

RT: 3.64 min Scan# 220

Delta R.T. 0.00 min

Lab File: VL033739.D

Acq: 22 May 2019 9:56

Instrument :

MSVOA_L

ClientSampled :

VSTDCCC010

Tot Ion: 45 Resp: 91092

Ion Ratio Lower Upper

45 100

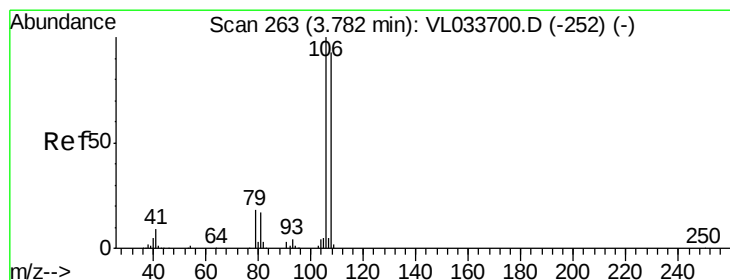
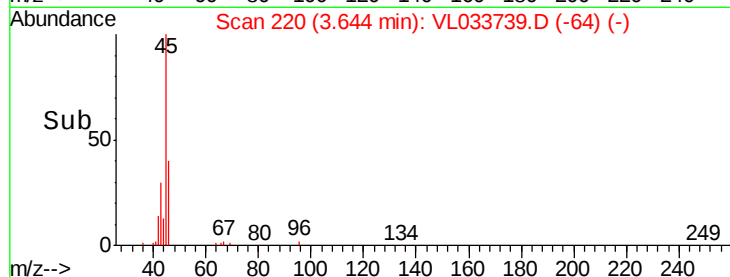
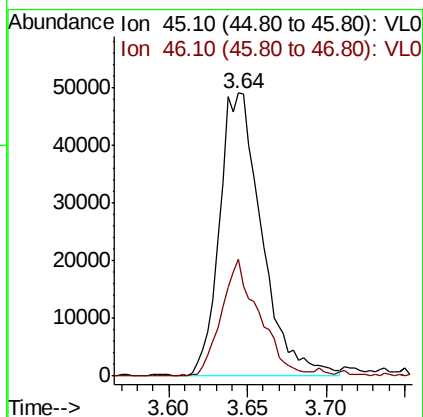
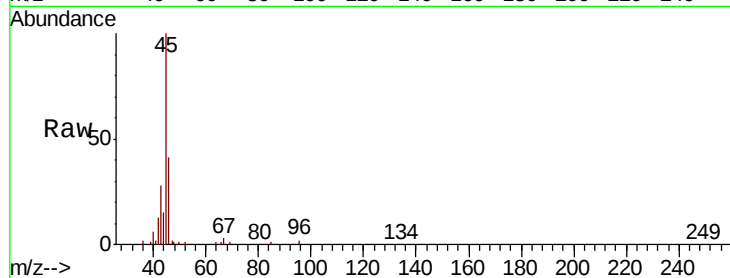
46 38.4 14.8 59.0

Manual Integrations

APPROVED

MMDadoda

5/28/2019 2:50:39 AM



#14

Bromoethene

Concen: 10.095 ppbv

RT: 3.78 min Scan# 263

Delta R.T. 0.00 min

Lab File: VL033739.D

Acq: 22 May 2019 9:56

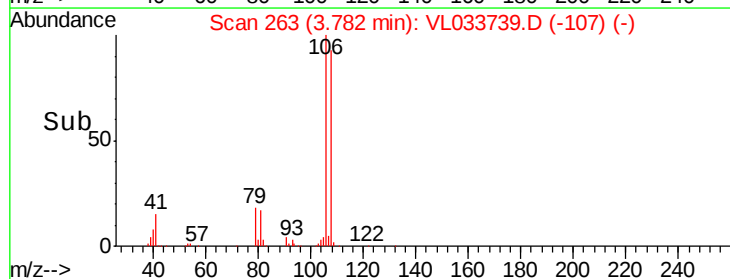
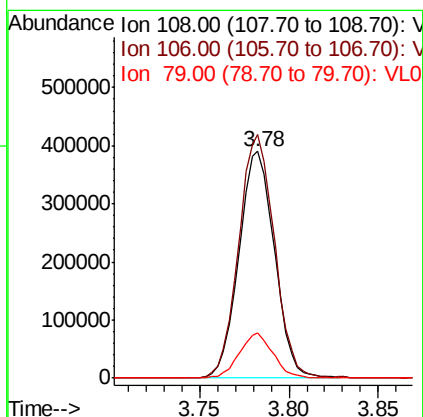
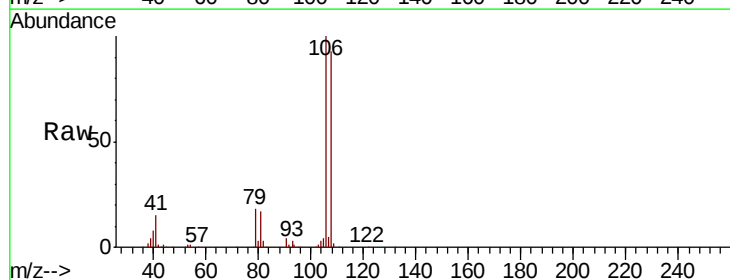
Tgt Ion: 108 Resp: 543351

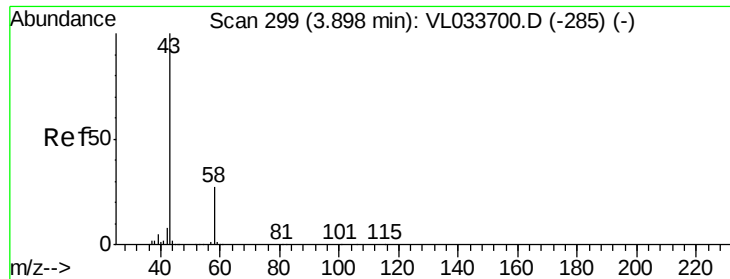
Ion Ratio Lower Upper

108 100

106 107.8 86.5 129.7

79 19.1 15.1 22.7





#15

Acetone

Concen: 8.524 ppbv

RT: 3.89 min Scan# 298

Delta R.T. -0.00 min

Lab File: VL033739.D

Acq: 22 May 2019 9:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1232795

Ion Ratio Lower Upper

43 100

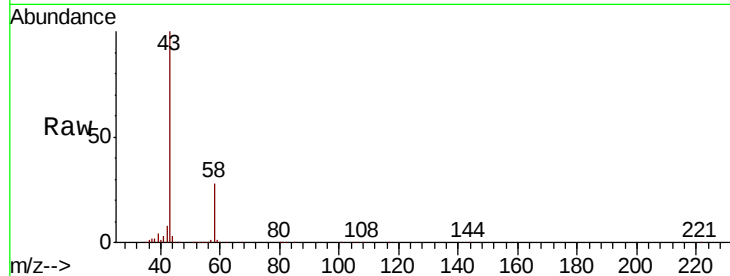
58 26.7 21.3 31.9

Manual Integrations

APPROVED

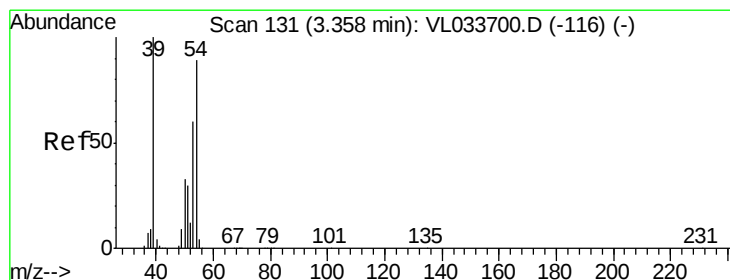
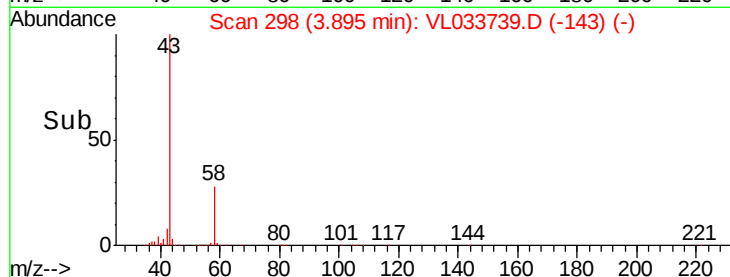
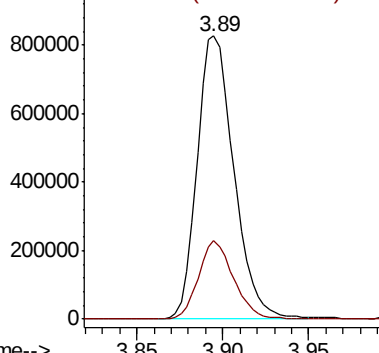
MMDadoda

5/28/2019 2:50:39 AM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 10.032 ppbv

RT: 3.36 min Scan# 131

Delta R.T. 0.00 min

Lab File: VL033739.D

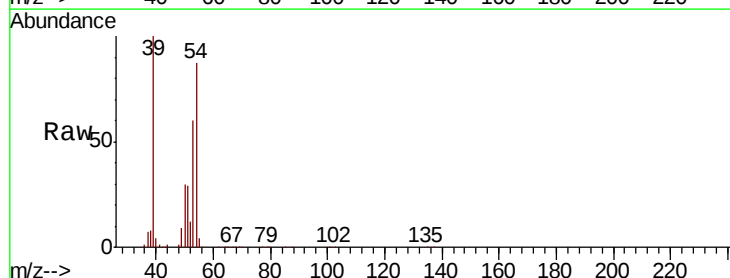
Acq: 22 May 2019 9:56

Tgt Ion: 39 Resp: 577742

Ion Ratio Lower Upper

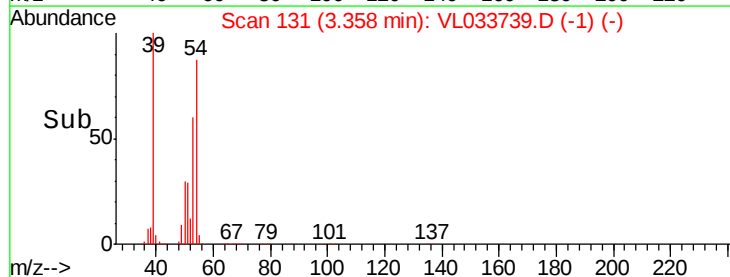
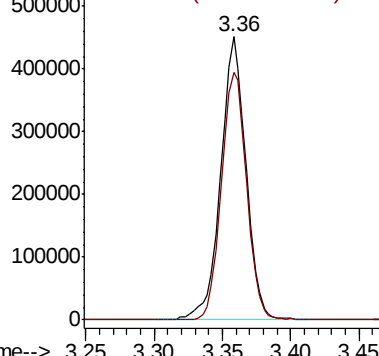
39 100

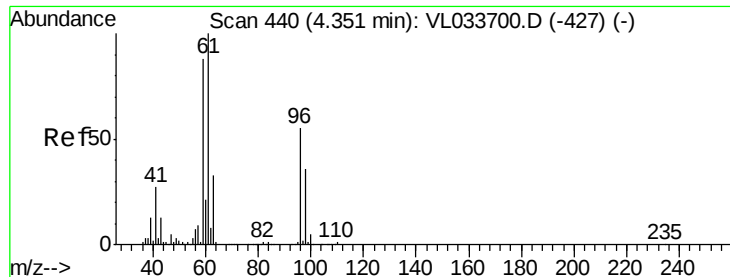
54 88.0 69.0 103.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

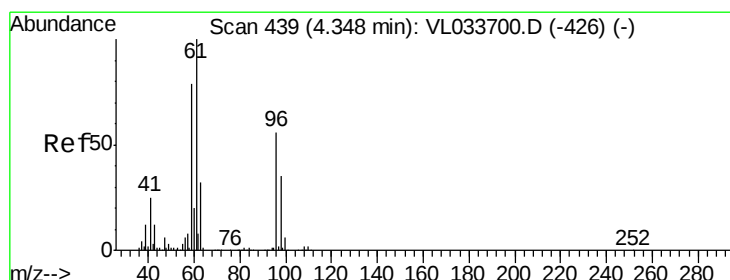
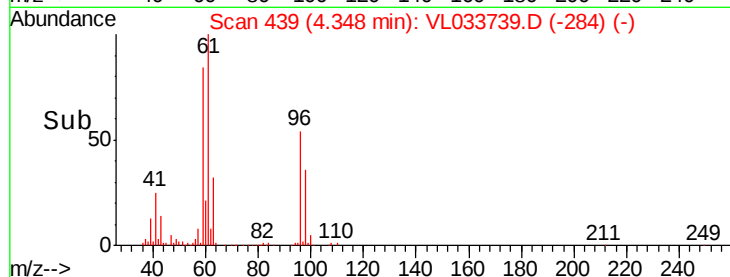
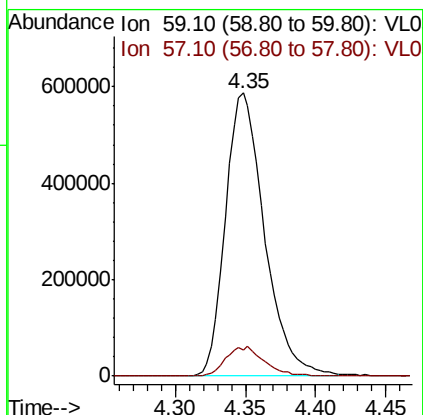
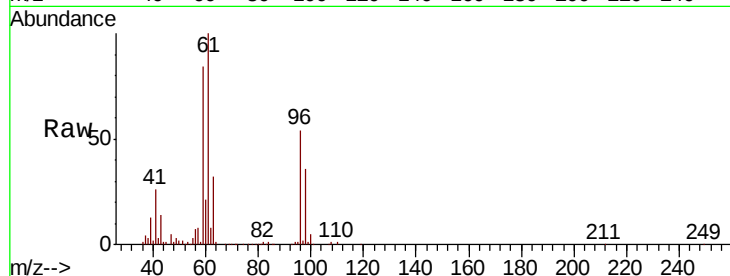
tert-Butyl alcohol
Concen: 9.721 ppbv
RT: 4.35 min Scan# 439
Delta R.T. -0.00 min
Lab File: VL033739.D
Acq: 22 May 2019 9:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 59 Resp: 1136750
Ion Ratio Lower Upper
59 100
57 10.5 8.4 12.6

Manual Integrations
APPROVED

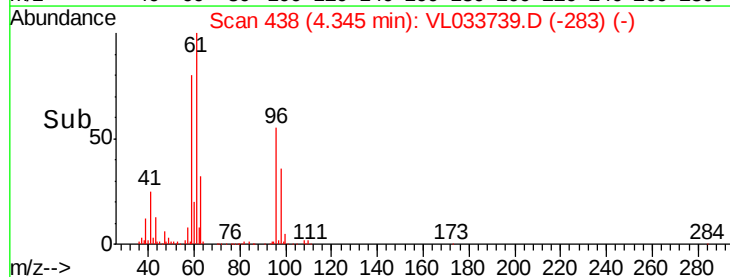
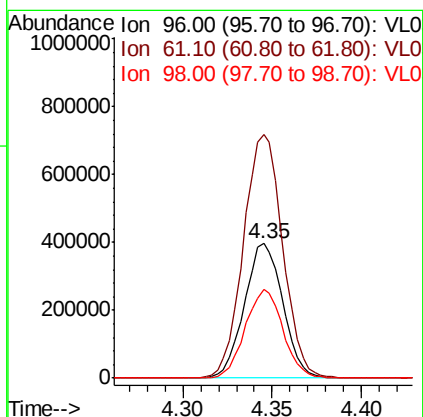
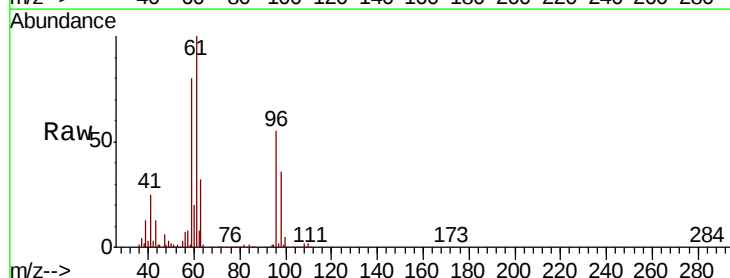
MMDadoda
5/28/2019 2:50:39 AM

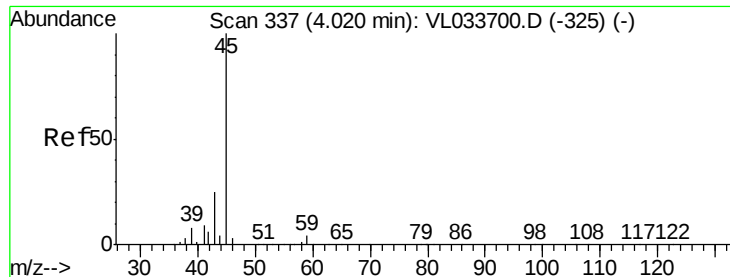


#18

1,1-Dichloroethene
Concen: 9.663 ppbv
RT: 4.35 min Scan# 438
Delta R.T. -0.00 min
Lab File: VL033739.D
Acq: 22 May 2019 9:56

Tgt Ion: 96 Resp: 597143
Ion Ratio Lower Upper
96 100
61 181.1 143.1 214.7
98 65.8 49.5 74.3





#19

Isopropyl Alcohol

Concen: 8.520 ppbv

RT: 4.02 min Scan# 336

Delta R.T. -0.00 min

Lab File: VL033739.D

Acq: 22 May 2019 9:56

Instrument :

MSVOA_L

ClientSampleID :

VSTDCCC010

Tot Ion: 45 Resp: 794436

Ion Ratio Lower Upper

45 100

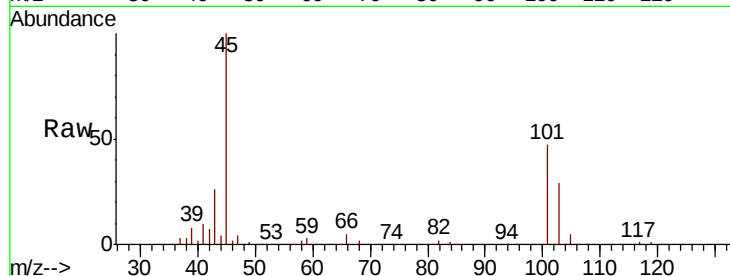
58 2.2 1.6 2.4

Manual Integrations

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MMDadoda

5/28/2019 2:50:39 AM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.02

500000

400000

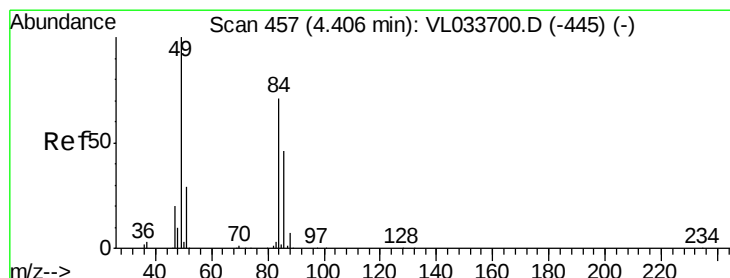
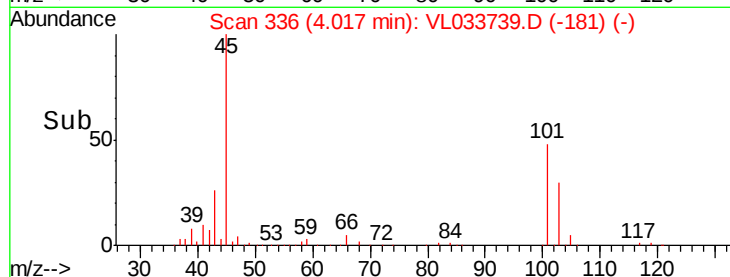
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 9.078 ppbv

RT: 4.40 min Scan# 456

Delta R.T. -0.00 min

Lab File: VL033739.D

Acq: 22 May 2019 9:56

Tgt Ion: 84 Resp: 505496

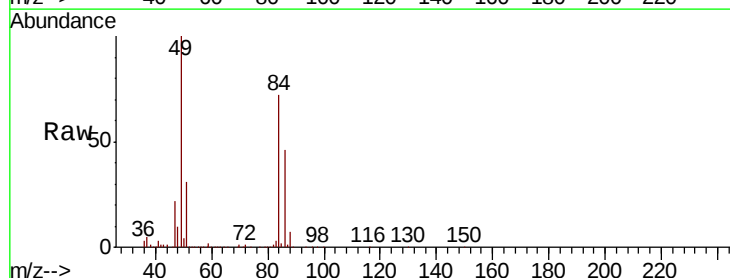
Ion Ratio Lower Upper

84 100

49 138.2 112.8 169.2

51 42.1 33.4 50.0

86 63.3 51.7 77.5



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

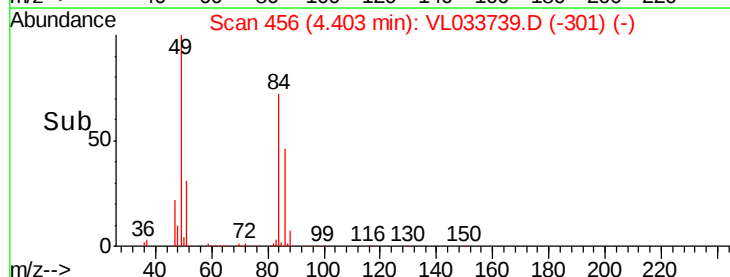
600000

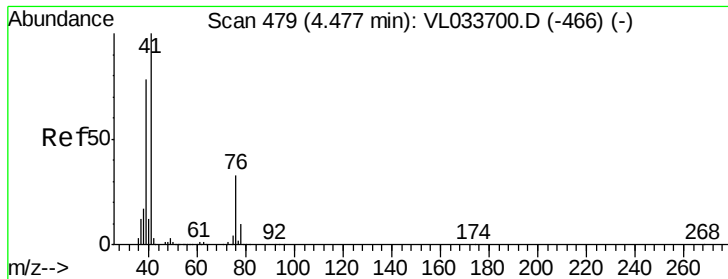
400000

200000

0

Time-->





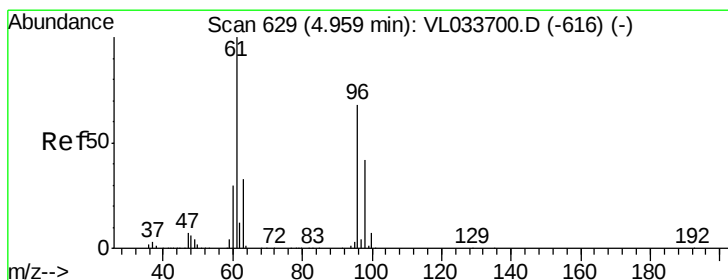
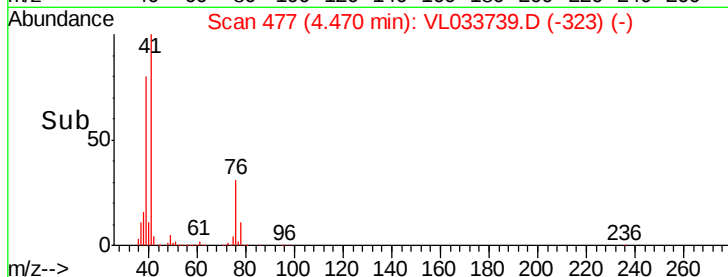
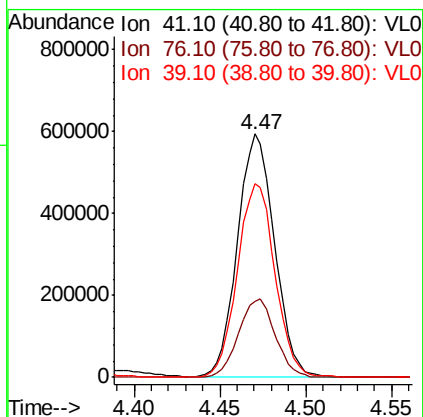
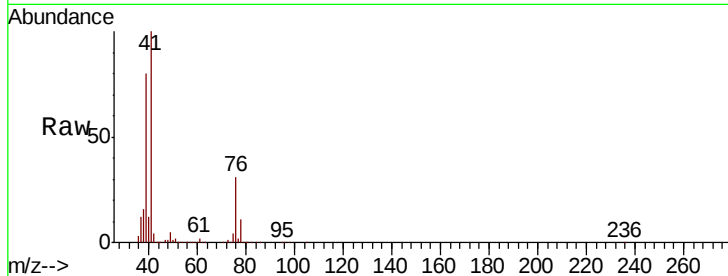
#21
Allvl Chloride
Concen: 9.802 ppbv
RT: 4.47 min Scan# 477
Delta R.T. -0.01 min
Lab File: VL033739.D
Acq: 22 May 2019 9:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	32.2	25.9	38.9
39	81.3	64.6	97.0

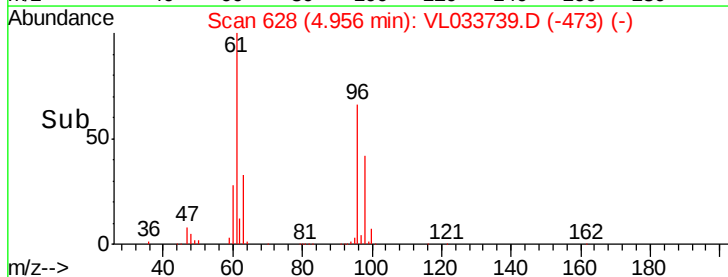
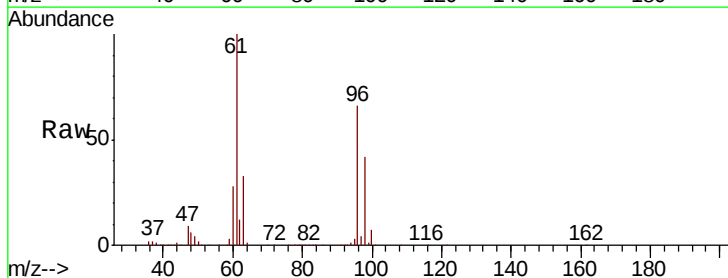
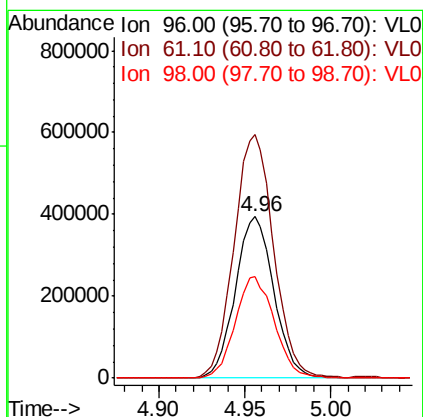
Manual Integrations
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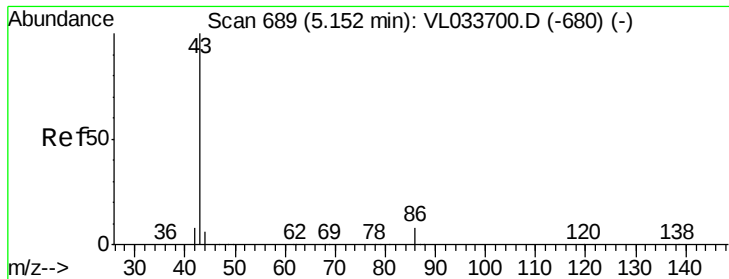
MMDadoda
5/28/2019 2:50:39 AM



#22
trans-1,2-Dichloroethene
Concen: 9.698 ppbv
RT: 4.96 min Scan# 628
Delta R.T. -0.00 min
Lab File: VL033739.D
Acq: 22 May 2019 9:56

Tgt Ion	Ratio	Lower	Upper
96	100		
61	150.6	116.8	175.2
98	62.8	49.4	74.0





#23

Vinyl Acetate

Concen: 10.078 ppbv

RT: 5.15 min Scan# 687

Delta R.T. -0.01 min

Lab File: VL033739.D

Acq: 22 May 2019 9:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1921681

Ion Ratio Lower Upper

43 100

86 7.5 6.0 9.0

42 10.1 7.5 11.3

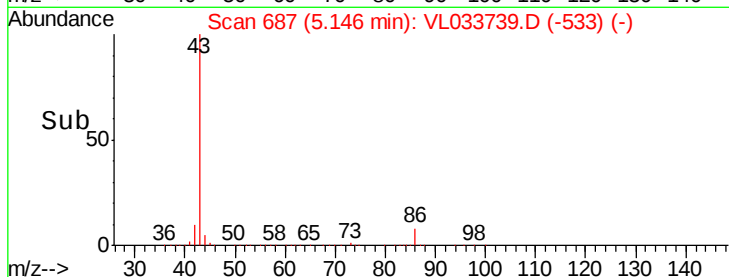
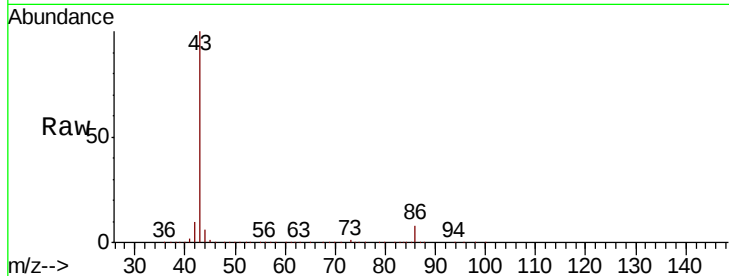
44 5.4 4.4 6.6

Manual Integrations

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MMDadoda

5/28/2019 2:50:39 AM

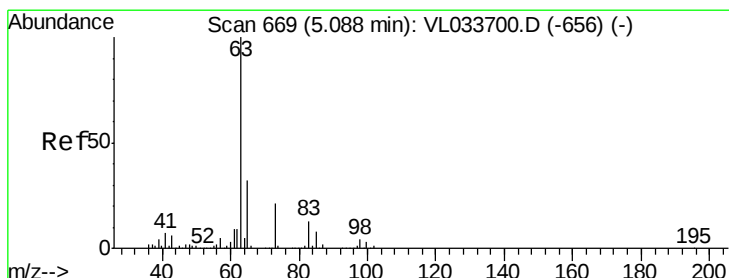
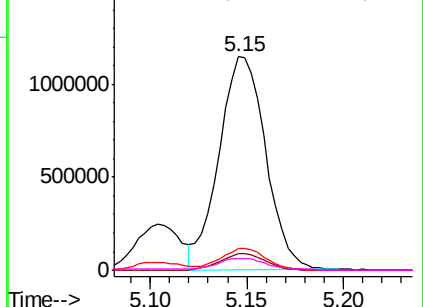


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.341 ppbv

RT: 5.08 min Scan# 668

Delta R.T. -0.00 min

Lab File: VL033739.D

Acq: 22 May 2019 9:56

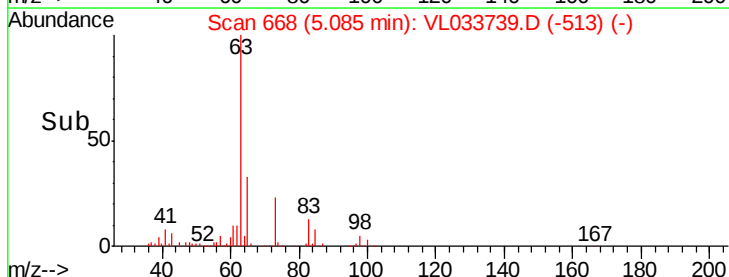
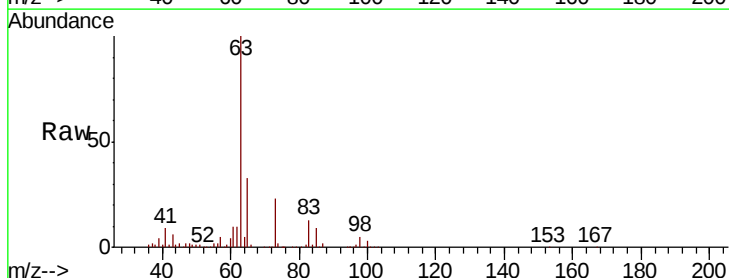
Tgt Ion: 63 Resp: 1353992

Ion Ratio Lower Upper

63 100

98 4.7 1.8 5.5

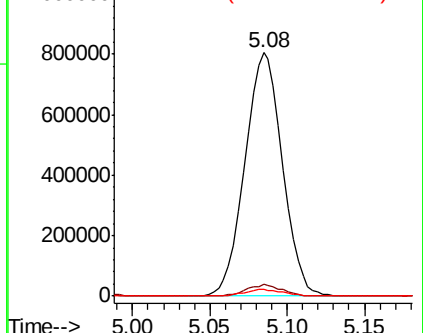
100 2.6 1.4 4.2

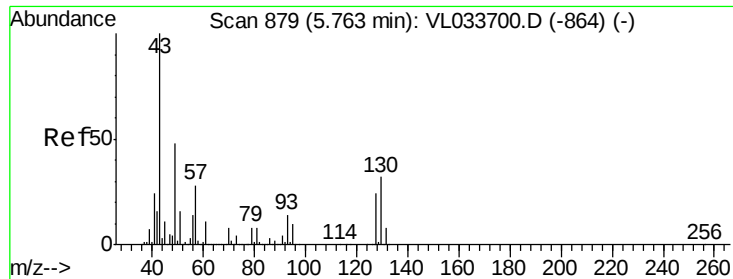


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





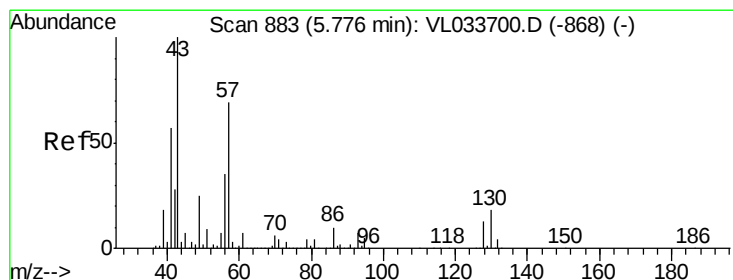
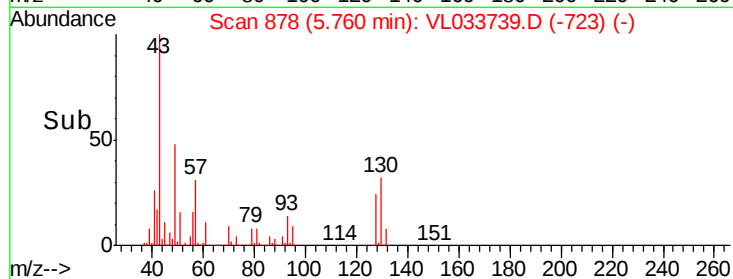
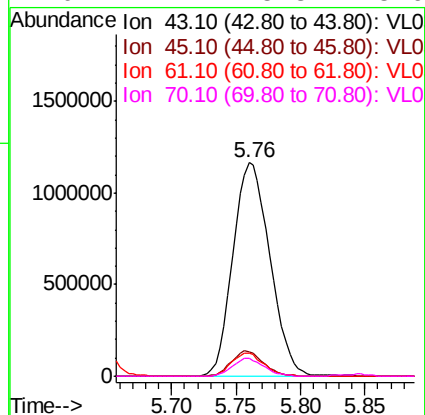
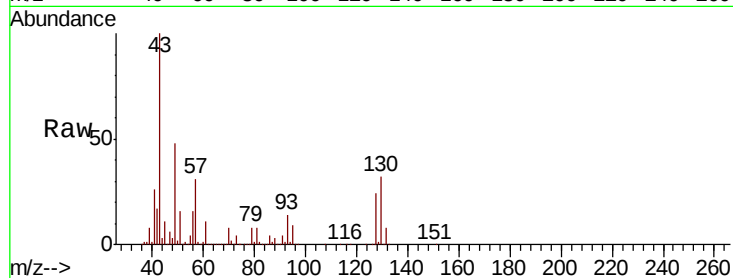
#25
Ethyl Acetate
Concen: 9.154 ppbv
RT: 5.76 min Scan# 878
Delta R.T. -0.00 min
Lab File: VL033739.D
Acq: 22 May 2019 9:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.4	7.9	11.9	
61	9.6	7.7	11.5	
70	7.2	5.8	8.6	

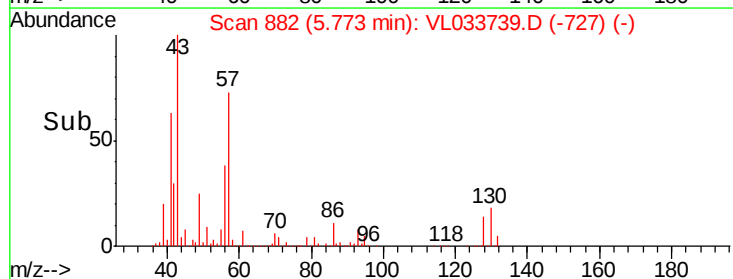
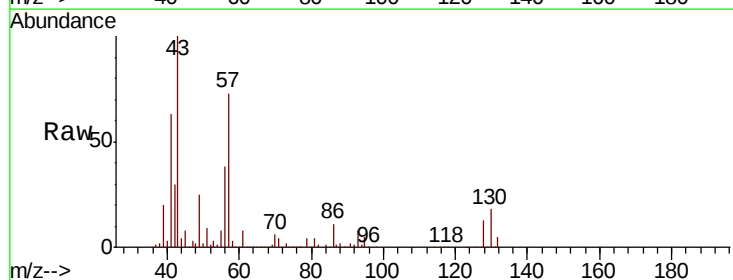
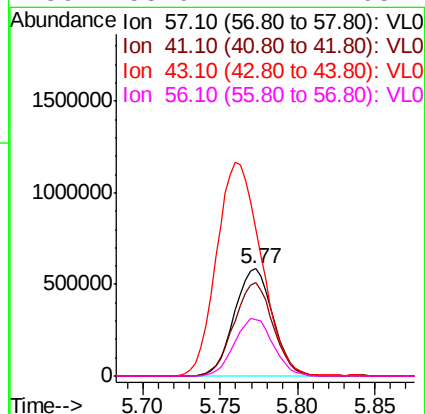
Manual Integrations
APPROVED

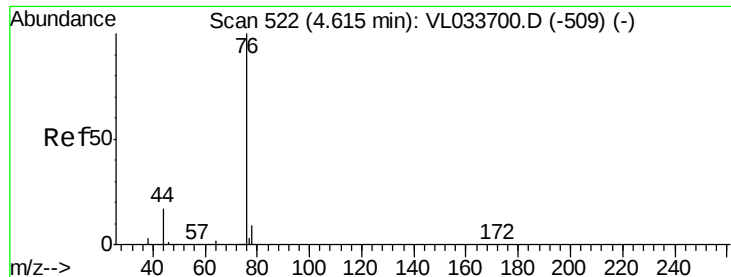
MMDadoda
5/28/2019 2:50:39 AM



#26
Hexane
Concen: 9.263 ppbv
RT: 5.77 min Scan# 882
Delta R.T. -0.00 min
Lab File: VL033739.D
Acq: 22 May 2019 9:56

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	88.5	69.8	104.6	
43	230.8	181.8	272.6	
56	53.9	42.1	63.1	





#27

Carbon Disulfide

Concen: 10.234 ppbv

RT: 4.61 min Scan# 521

Delta R.T. -0.00 min

Lab File: VL033739.D

Acq: 22 May 2019 9:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1533433

Ion Ratio Lower Upper

76 100

44 17.7 13.8 20.8

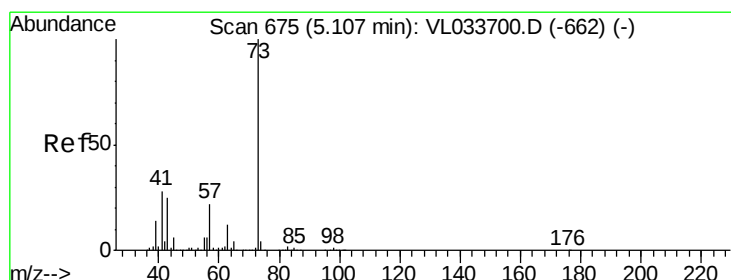
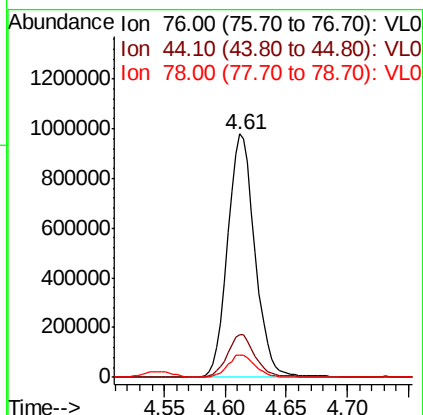
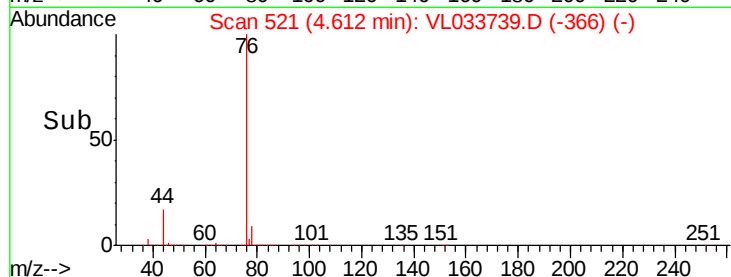
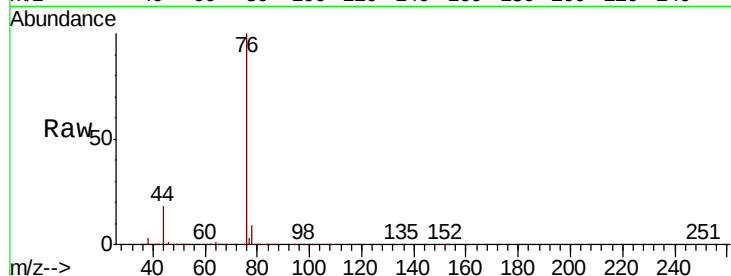
78 9.3 7.4 11.0

Manual Integrations

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MMDadoda

5/28/2019 2:50:39 AM



#28

Methyl tert-Butyl Ether

Concen: 9.916 ppbv

RT: 5.10 min Scan# 674

Delta R.T. -0.00 min

Lab File: VL033739.D

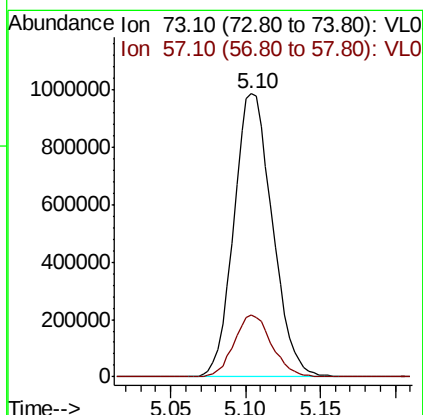
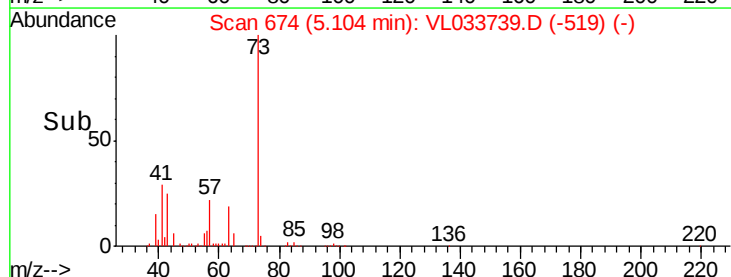
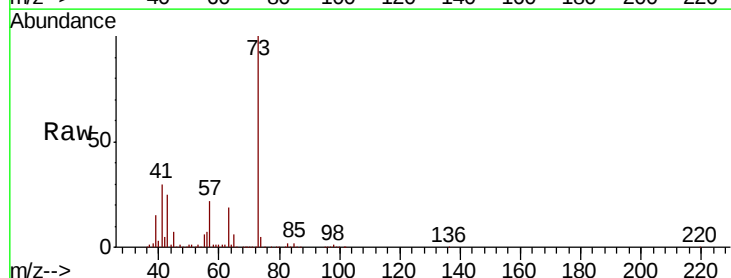
Acq: 22 May 2019 9:56

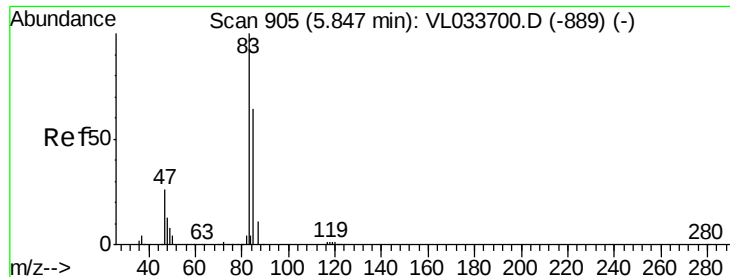
Tgt Ion: 73 Resp: 1765445

Ion Ratio Lower Upper

73 100

57 21.5 17.4 26.2





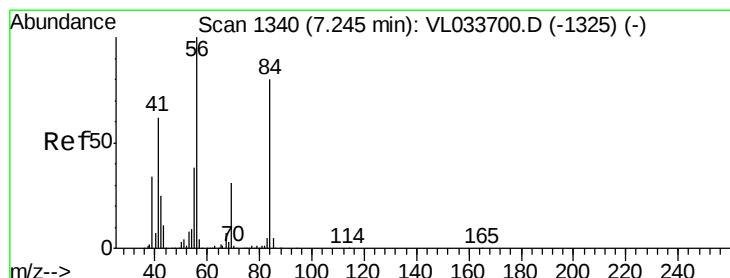
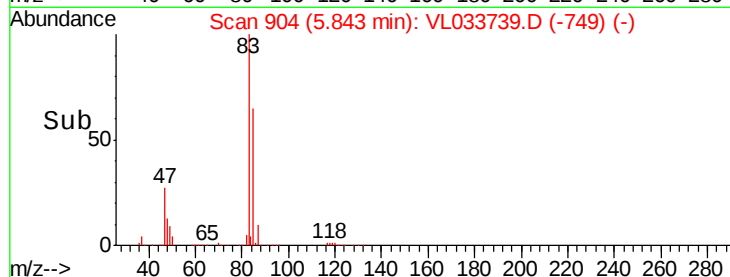
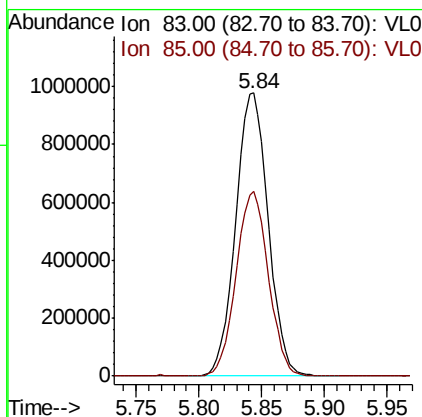
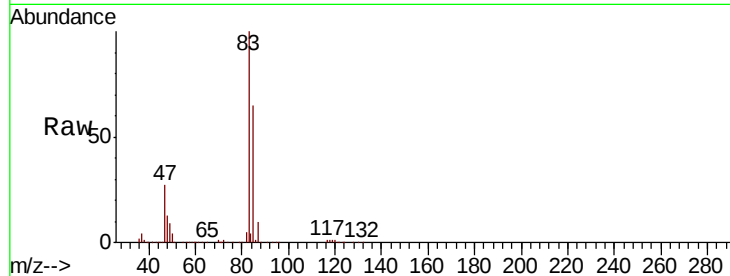
#29
Chloroform
Concen: 8.759 ppbv
RT: 5.84 min Scan# 904
Delta R.T. -0.00 min
Lab File: VL033739.D
Acq: 22 May 2019 9:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 1762148
Ion Ratio Lower Upper
83 100
85 65.1 51.5 77.3

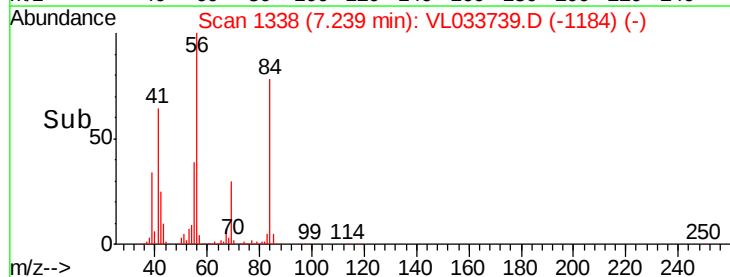
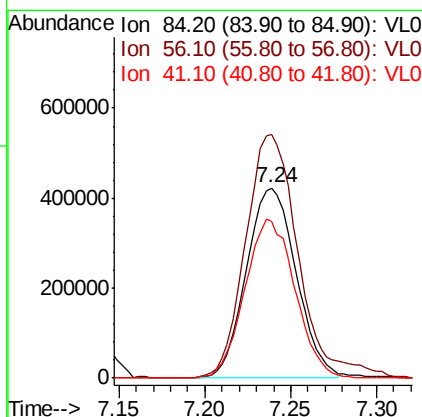
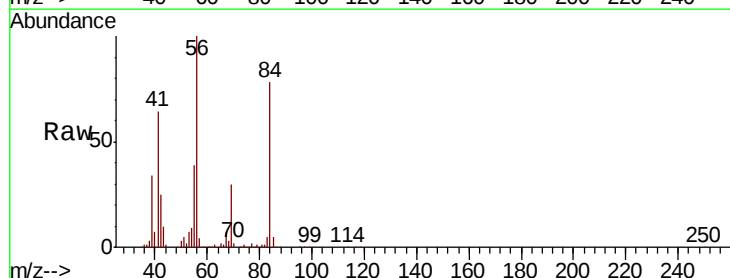
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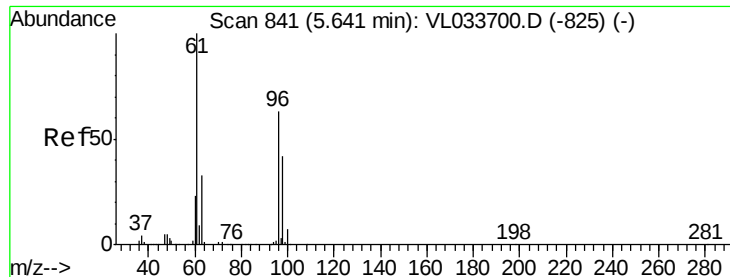
MMDadoda
5/28/2019 2:50:39 AM



#30
Cyclohexane
Concen: 9.253 ppbv
RT: 7.24 min Scan# 1338
Delta R.T. -0.01 min
Lab File: VL033739.D
Acq: 22 May 2019 9:56

Tgt Ion: 84 Resp: 849567
Ion Ratio Lower Upper
84 100
56 136.2 107.7 161.5
41 84.3 66.0 99.0





#31

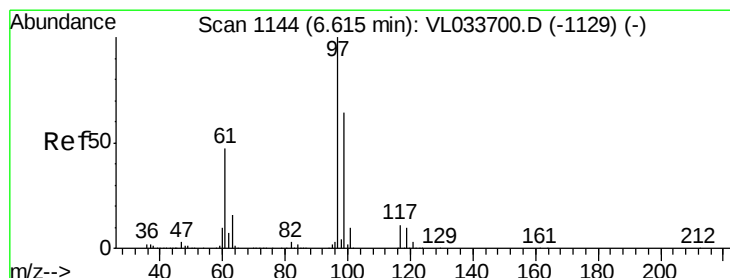
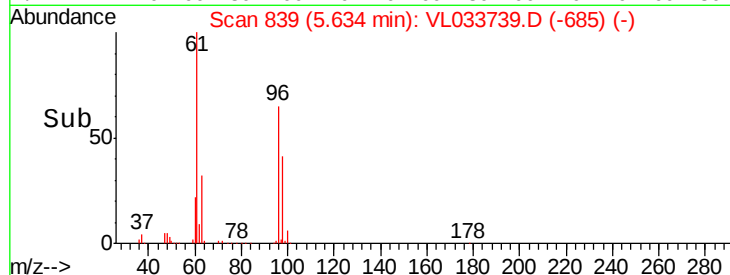
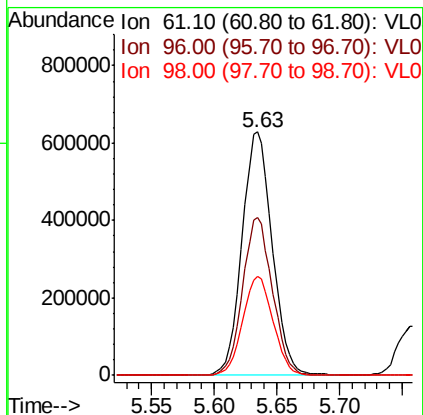
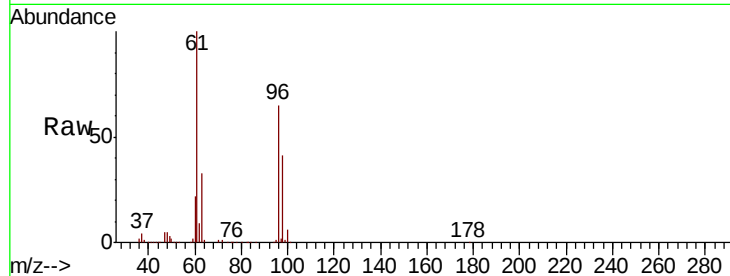
cis-1,2-Dichloroethene
 Concen: 9.715 ppbv
 RT: 5.63 min Scan# 839
 Delta R.T. -0.01 min
 Lab File: VL033739.D
 Acq: 22 May 2019 9:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	64.8	50.8	76.2
98	40.8	33.3	49.9

Manual Integrations
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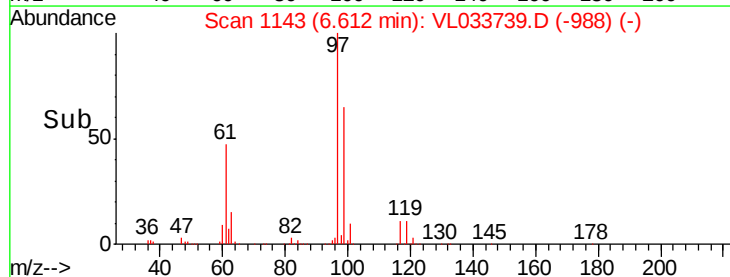
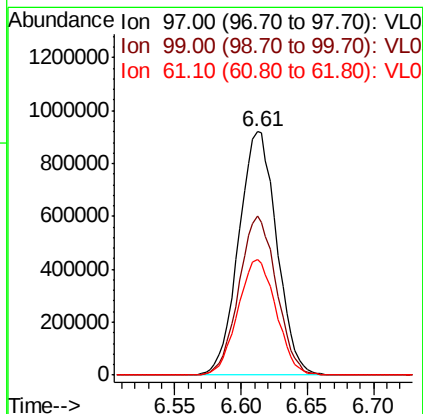
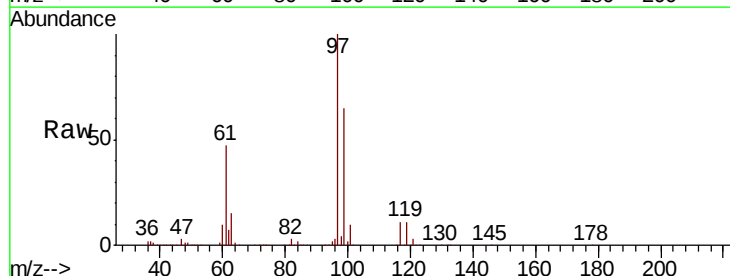
MMDadoda
 5/28/2019 2:50:39 AM

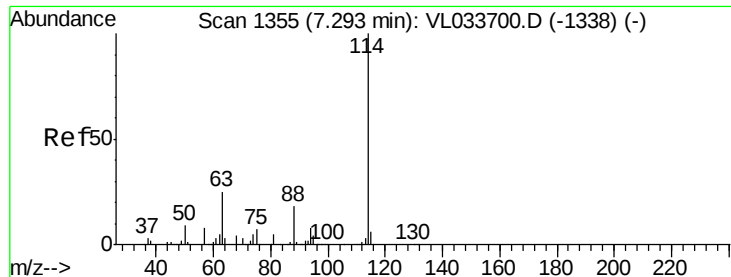


#32

1,1,1-Trichloroethane
 Concen: 9.146 ppbv
 RT: 6.61 min Scan# 1143
 Delta R.T. -0.00 min
 Lab File: VL033739.D
 Acq: 22 May 2019 9:56

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.5	77.3
61	48.0	37.8	56.8





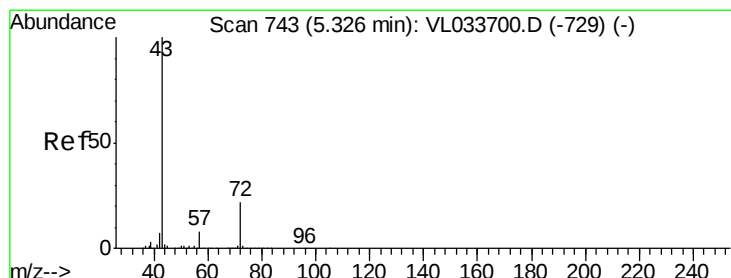
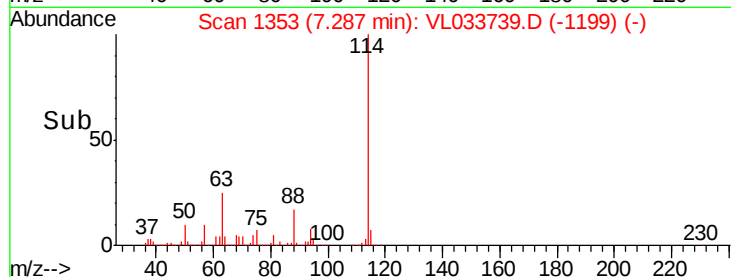
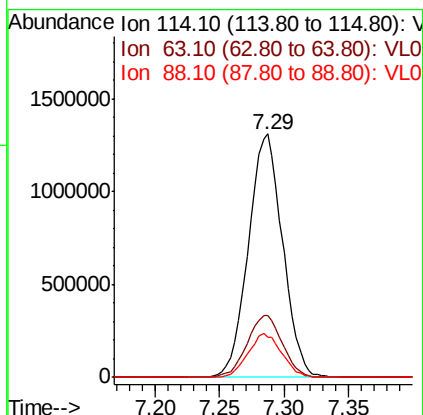
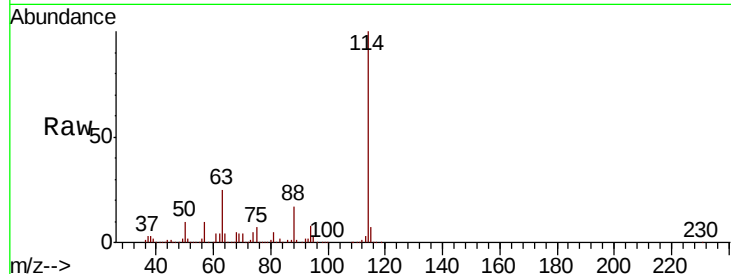
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033739.D
 Acq: 22 May 2019 9:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.4	20.9	31.3
88	17.8	14.3	21.5

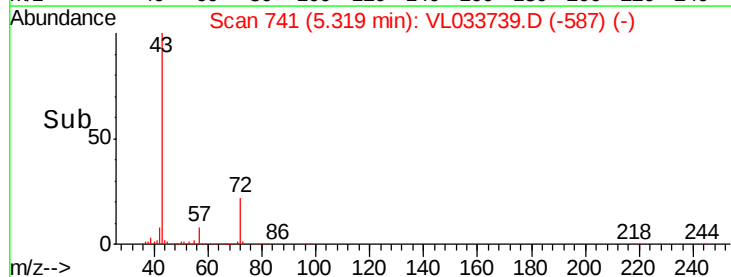
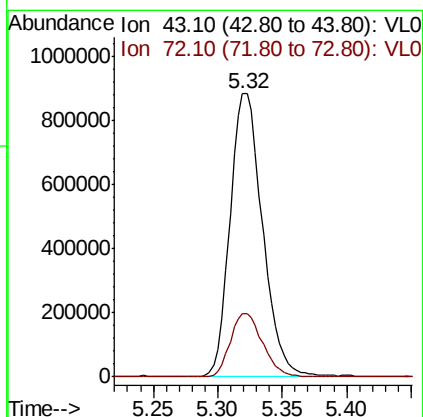
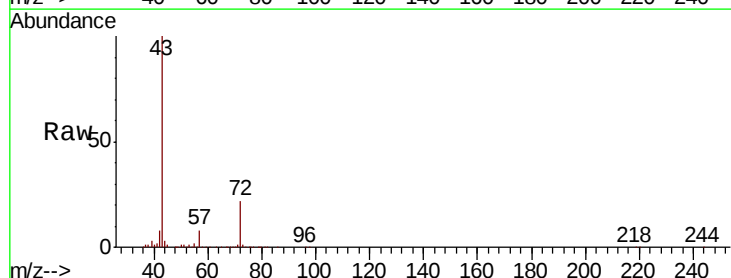
Manual Integrations
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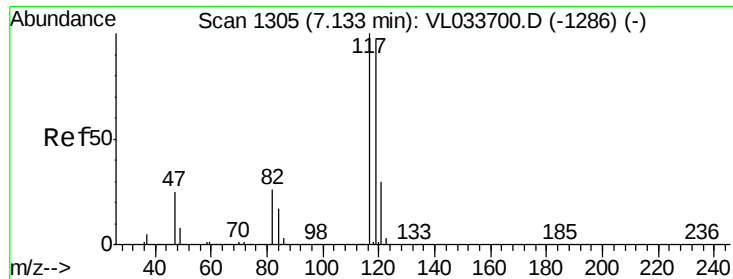
MMDadoda
 5/28/2019 2:50:39 AM



#34
 2-Butanone
 Concen: 10.279 ppbv
 RT: 5.32 min Scan# 741
 Delta R.T. -0.01 min
 Lab File: VL033739.D
 Acq: 22 May 2019 9:56

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.5	17.8	26.6





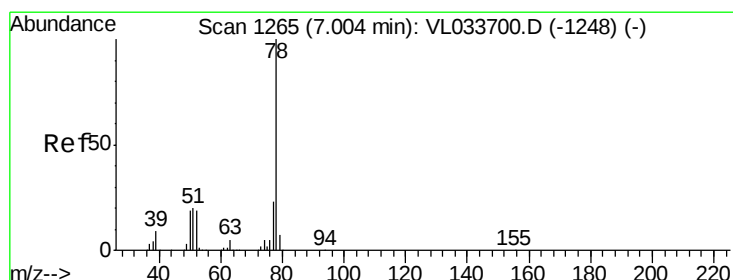
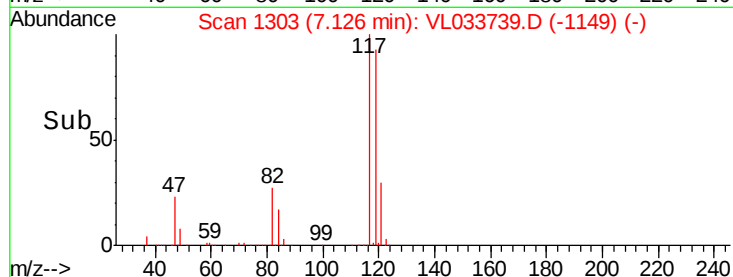
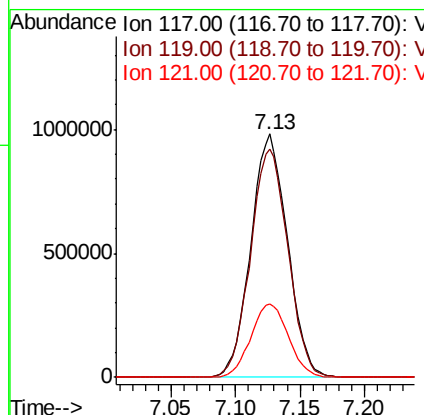
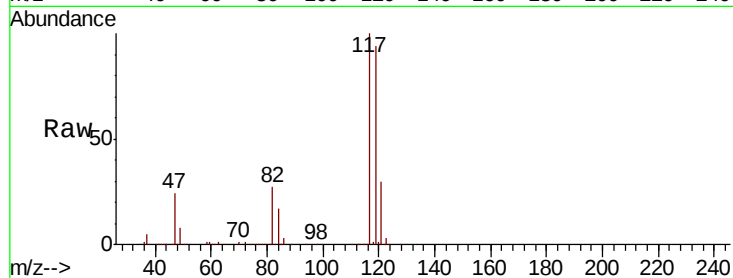
#35
Carbon Tetrachloride
Concen: 10.007 ppbv
RT: 7.13 min Scan# 1303
Delta R.T. -0.01 min
Lab File: VL033739.D
Acq: 22 May 2019 9:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
117	100		
119	93.6	77.2	115.8
121	30.0	24.1	36.1

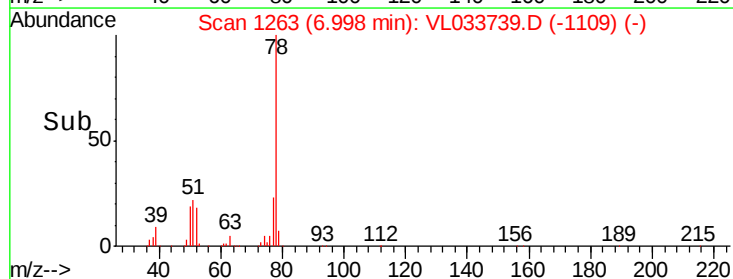
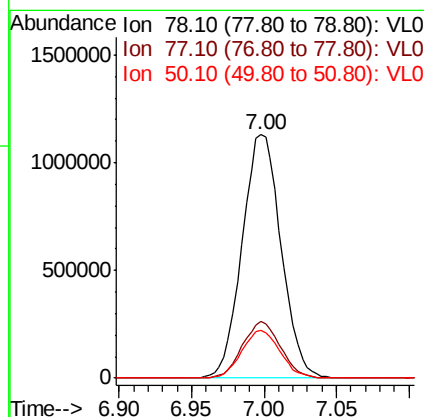
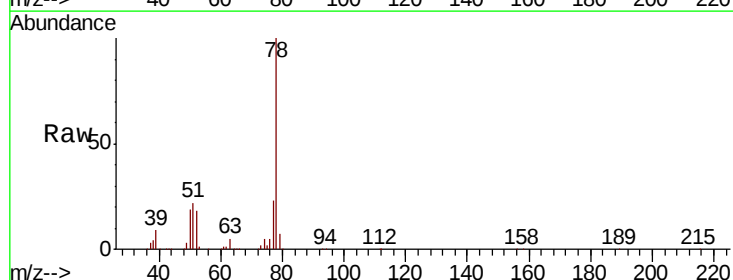
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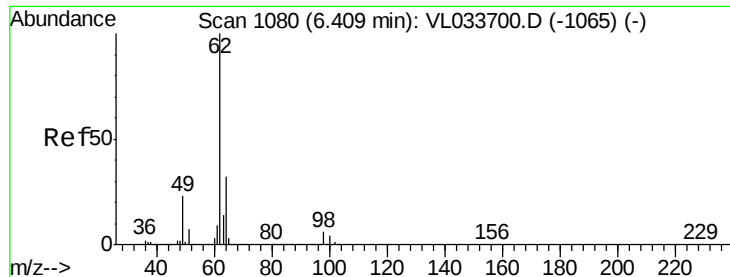
MMDadoda
5/28/2019 2:50:39 AM



#36
Benzene
Concen: 9.586 ppbv
RT: 7.00 min Scan# 1263
Delta R.T. -0.01 min
Lab File: VL033739.D
Acq: 22 May 2019 9:56

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.4	27.6
50	19.4	15.5	23.3





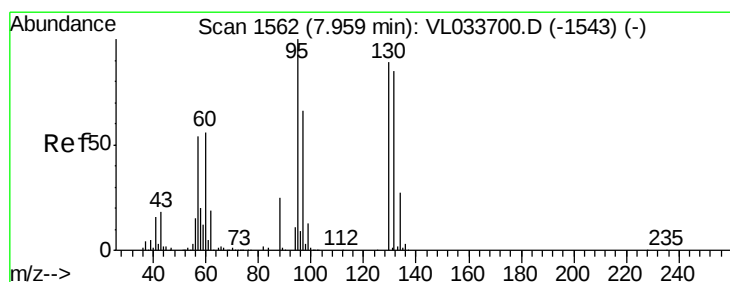
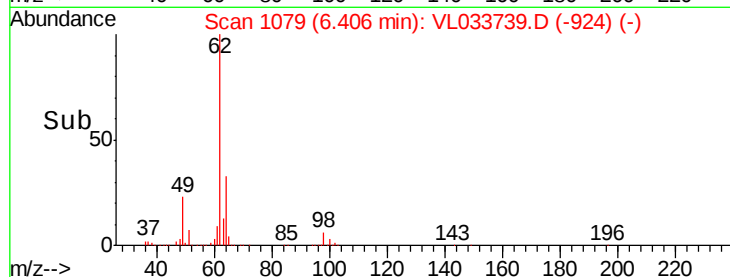
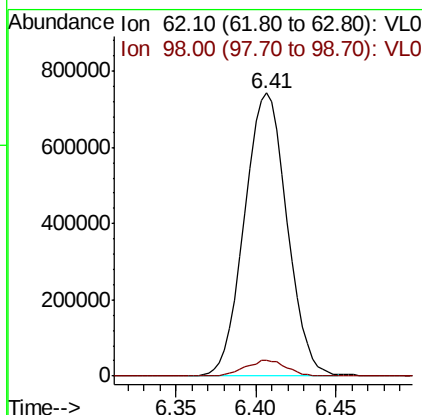
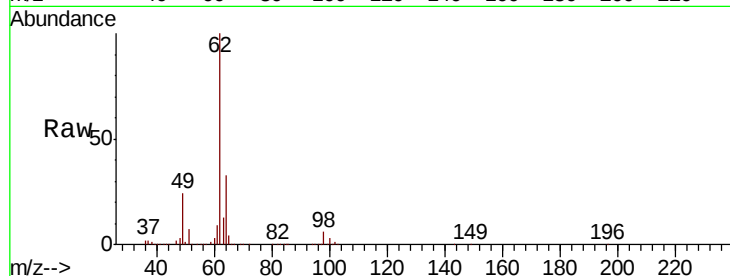
#37
 1,2-Dichloroethane
 Concen: 9.507 ppbv
 RT: 6.41 min Scan# 1079
 Delta R.T. -0.00 min
 Lab File: VL033739.D
 Acq: 22 May 2019 9:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 62 Resp: 1352363
 Ion Ratio Lower Upper
 62 100
 98 5.5 4.5 6.7

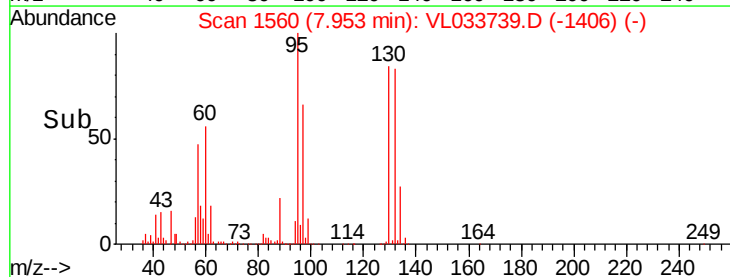
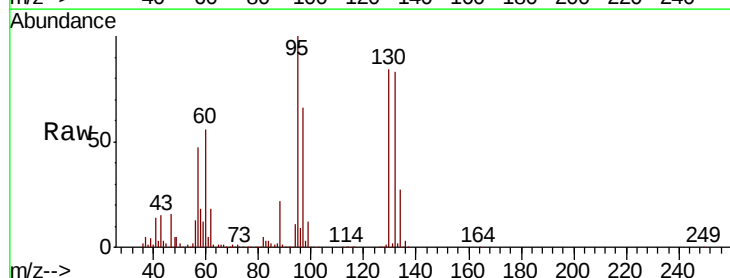
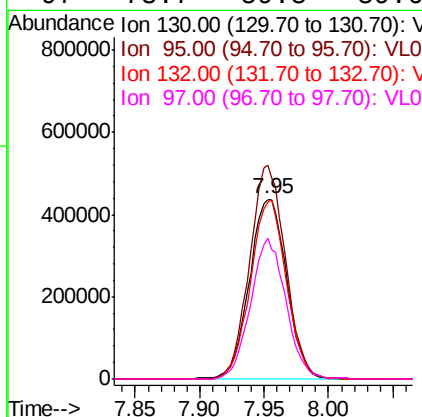
Manual Integrations
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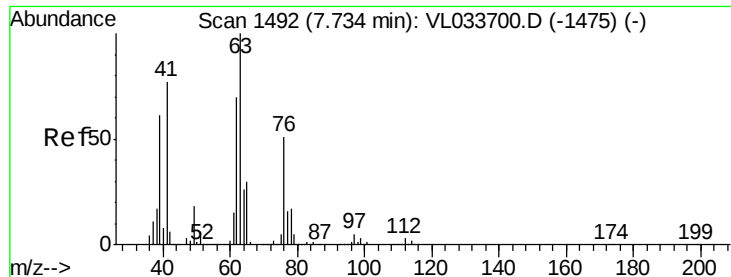
MMDadoda
 5/28/2019 2:50:39 AM



#38
 Trichloroethene
 Concen: 10.788 ppbv
 RT: 7.95 min Scan# 1560
 Delta R.T. -0.01 min
 Lab File: VL033739.D
 Acq: 22 May 2019 9:56

Tgt Ion:130 Resp: 882740
 Ion Ratio Lower Upper
 130 100
 95 118.9 90.2 135.4
 132 98.4 76.4 114.6
 97 78.7 59.8 89.6





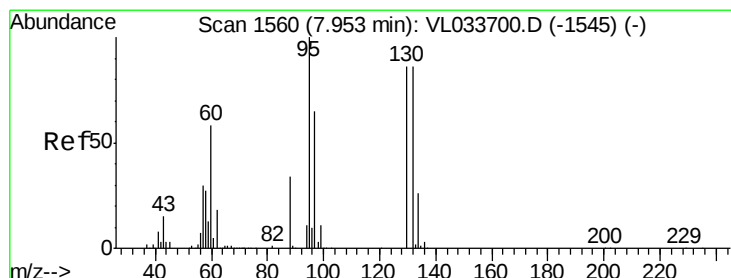
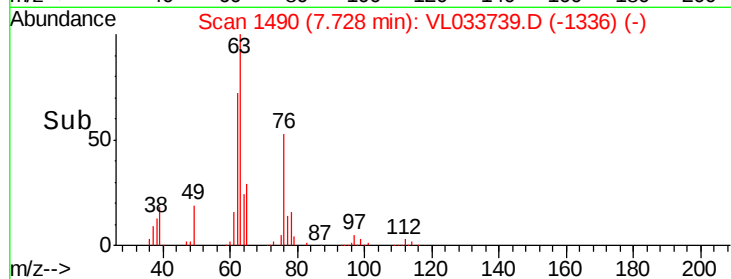
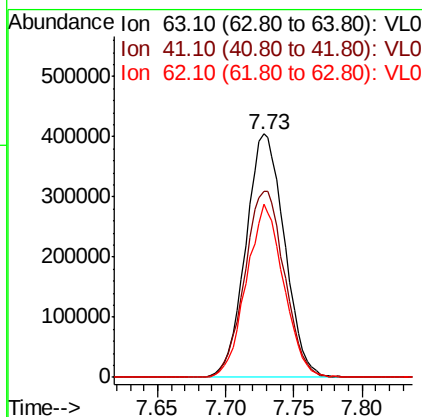
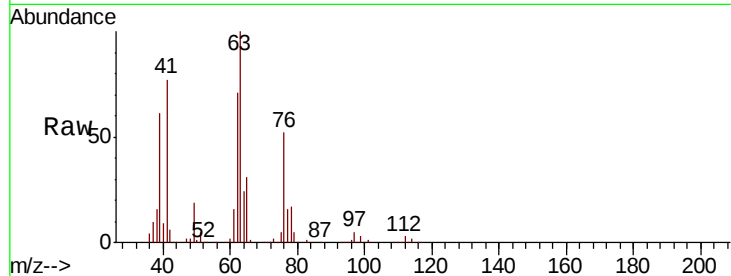
#39
 1,2-Dichloropropane
 Concen: 9.687 ppbv
 RT: 7.73 min Scan# 1490
 Delta R.T. -0.01 min
 Lab File: VL033739.D
 Acq: 22 May 2019 9:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	76.6	61.5	92.3
62	71.0	56.2	84.4

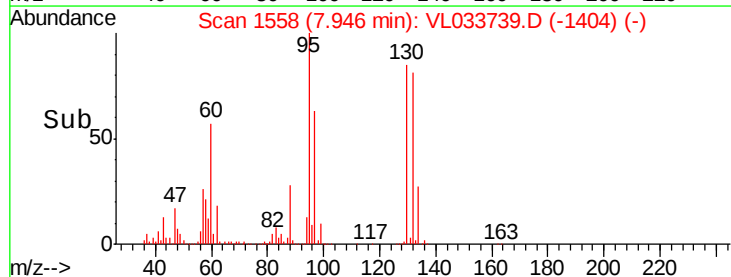
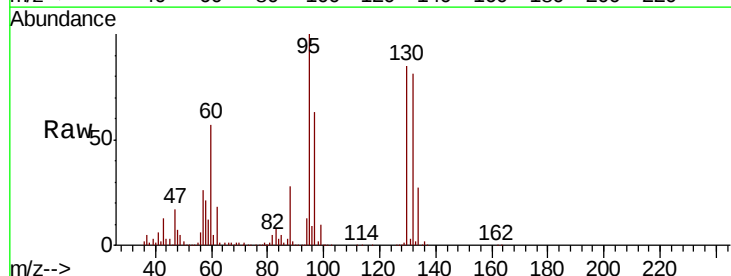
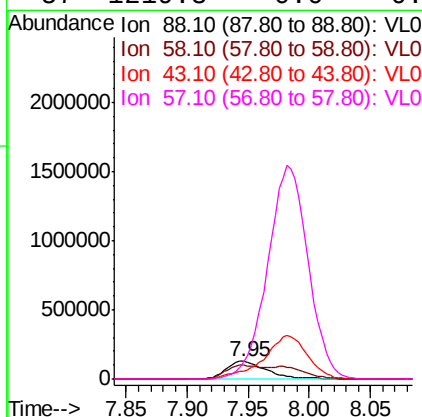
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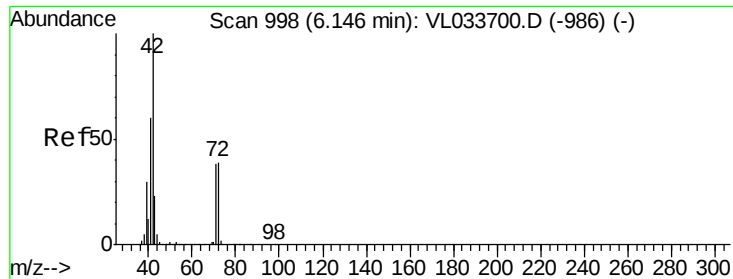
MMDadoda
 5/28/2019 2:50:39 AM



#40
 1,4-Dioxane
 Concen: 8.558 ppbv
 RT: 7.95 min Scan# 1558
 Delta R.T. -0.01 min
 Lab File: VL033739.D
 Acq: 22 May 2019 9:56

Tgt Ion	Ratio	Lower	Upper
88	100		
58	131.9	101.8	152.6
43	269.5	0.0	0.0#
57	1219.8	0.0	0.0#





#41

Tetrahydrofuran

Concen: 10.114 ppbv

RT: 6.14 min Scan# 995

Delta R.T. -0.01 min

Lab File: VL033739.D

Acq: 22 May 2019 9:56

Instrument :

MSVOA_L

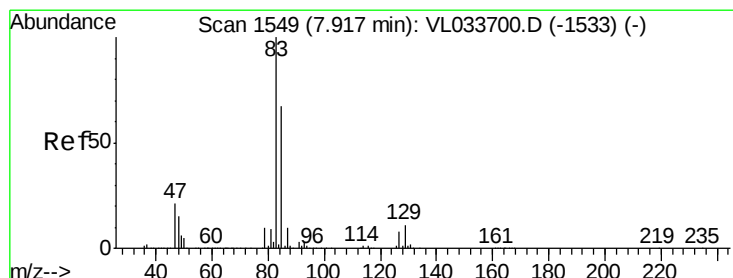
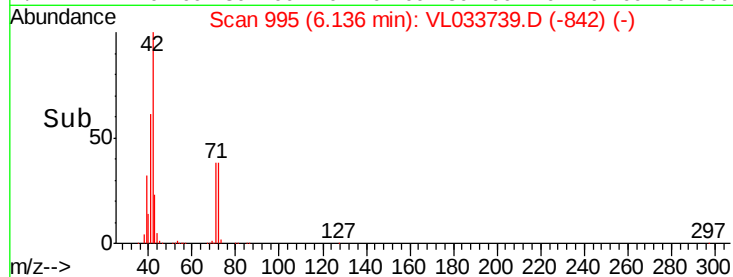
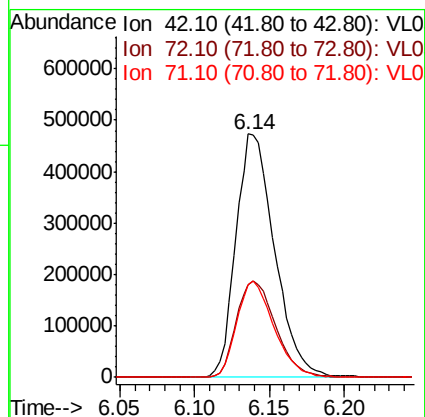
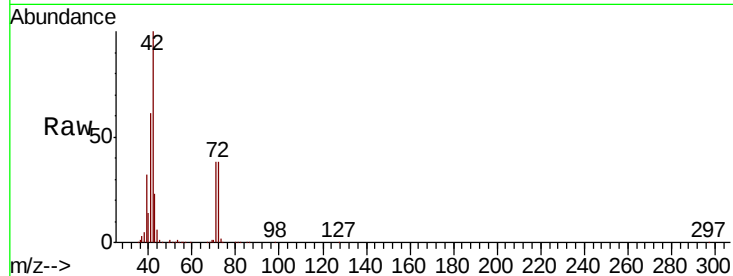
ClientSampleId :

VSTDCCC010

Tot Ion:	42	Resp:	851455
Ion Ratio	Lower	Upper	
42	100		
72	40.3	32.0	48.0
71	38.4	30.4	45.6

Manual Integrations
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MMDadoda
5/28/2019 2:50:39 AM



#42

Bromodichloromethane

Concen: 9.997 ppbv

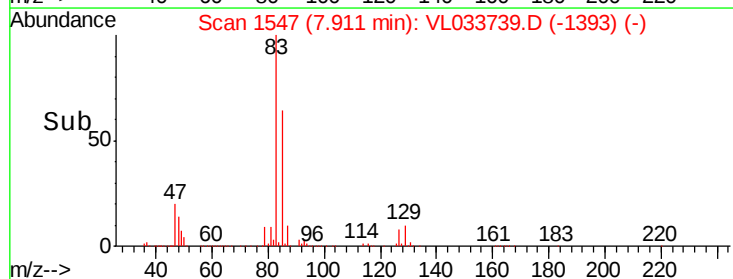
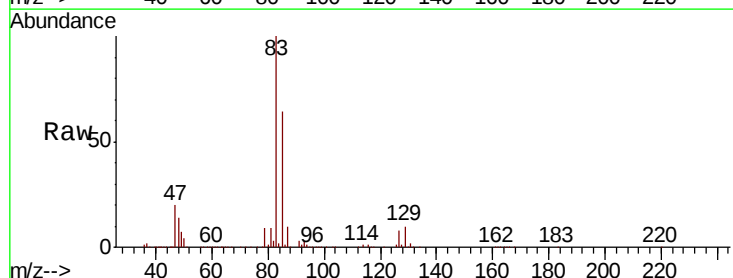
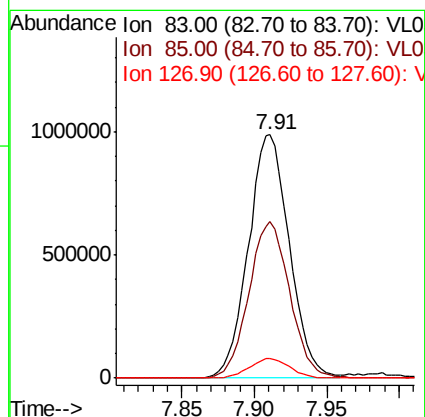
RT: 7.91 min Scan# 1547

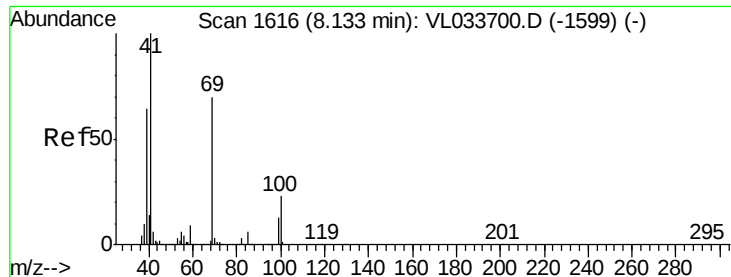
Delta R.T. -0.01 min

Lab File: VL033739.D

Acq: 22 May 2019 9:56

Tgt Ion:	83	Resp:	1946735
Ion Ratio	Lower	Upper	
83	100		
85	64.2	53.3	79.9
127	7.8	6.5	9.7





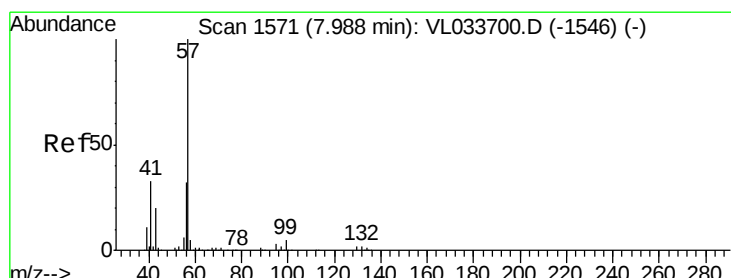
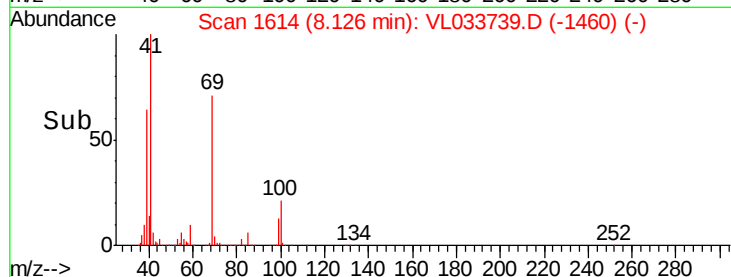
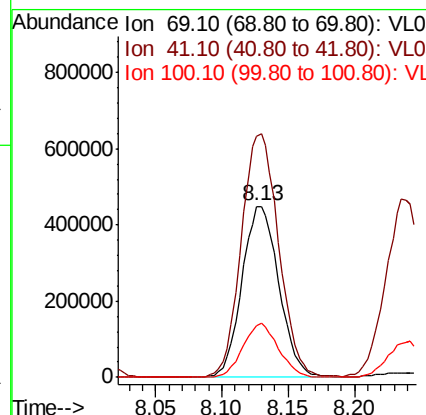
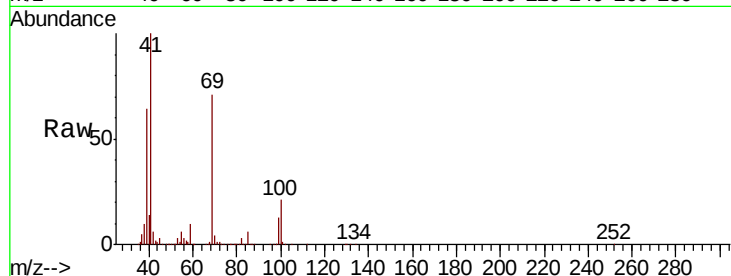
#43
Methvl Methacrilate
Concen: 10.675 ppbv
RT: 8.13 min Scan# 1614
Delta R.T. -0.01 min
Lab File: VL033739.D
Acq: 22 May 2019 9:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	144.1	116.3	174.5	
100	30.4	25.3	37.9	

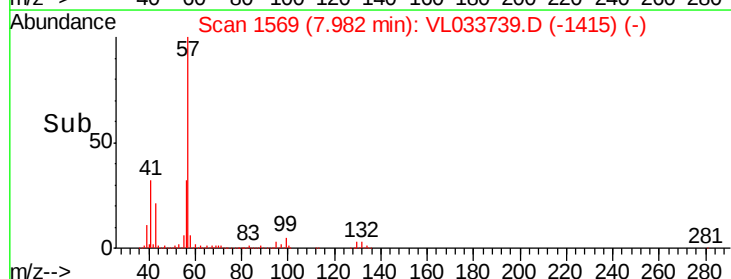
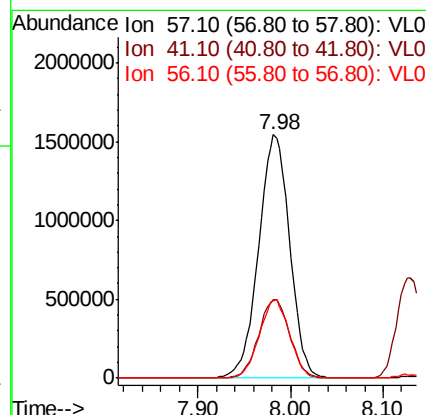
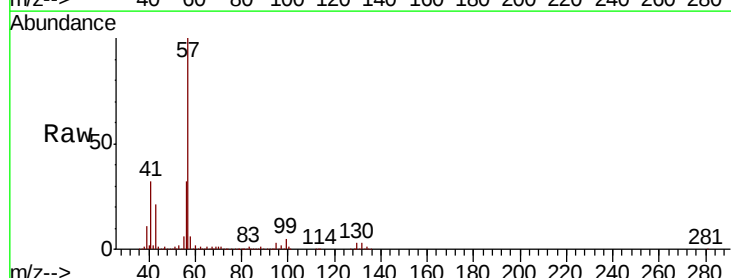
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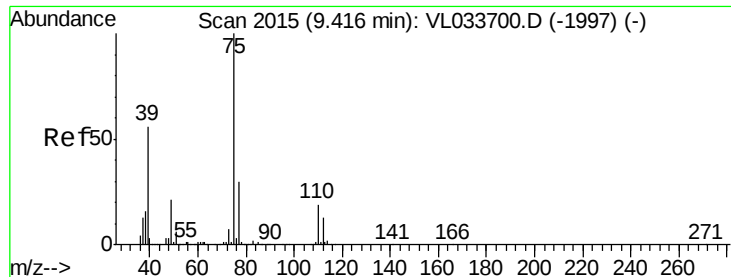
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 9.625 ppbv
RT: 7.98 min Scan# 1569
Delta R.T. -0.01 min
Lab File: VL033739.D
Acq: 22 May 2019 9:56

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	32.3	25.4	38.0	
56	31.3	24.7	37.1	





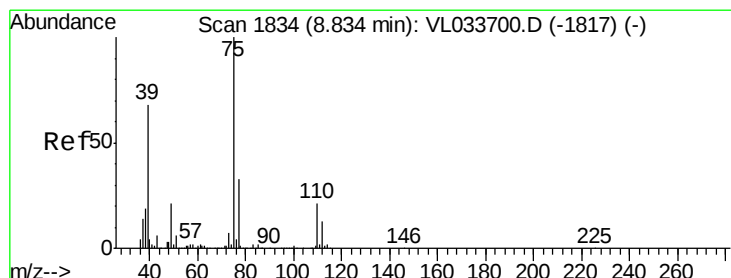
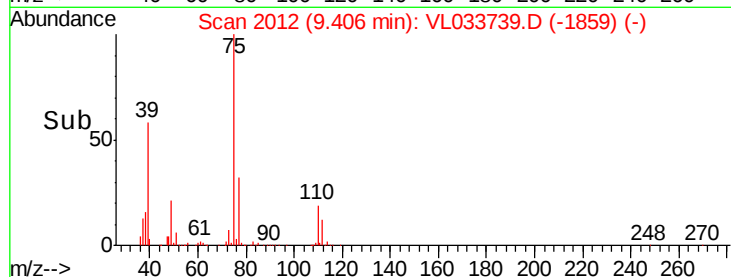
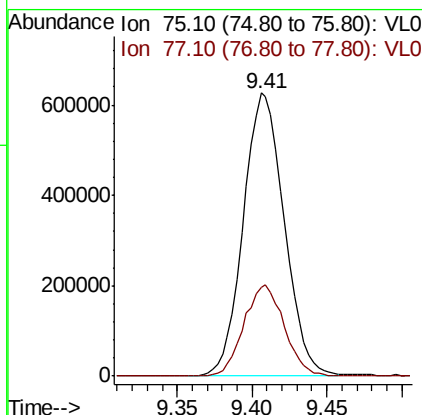
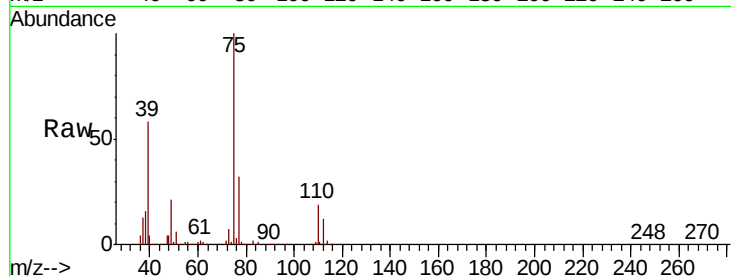
#45
t-1,3-Dichloropropene
Concen: 11.583 ppbv
RT: 9.41 min Scan# 2012
Delta R.T. -0.01 min
Lab File: VL033739.D
Acq: 22 May 2019 9:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 75 Resp: 1191673
Ion Ratio Lower Upper
75 100
77 31.6 24.4 36.6

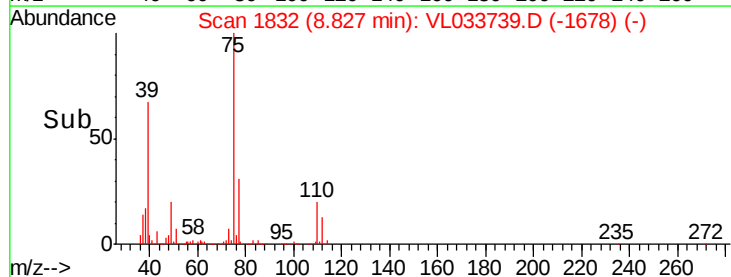
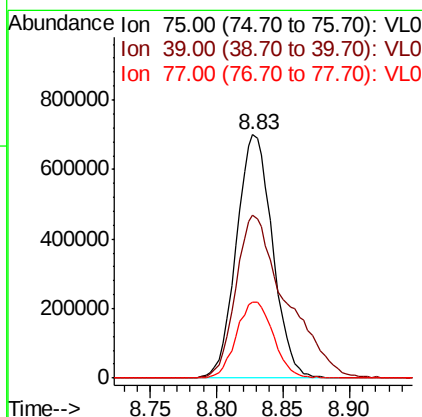
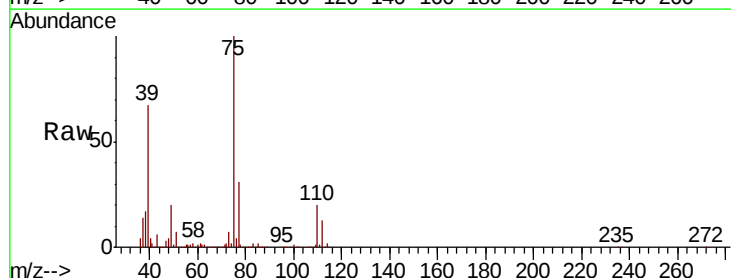
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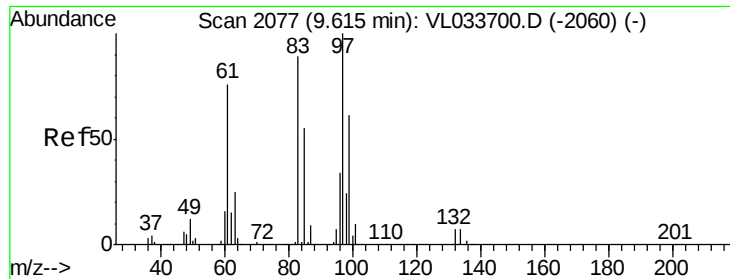
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#46
cis-1,3-Dichloropropene
Concen: 10.962 ppbv
RT: 8.83 min Scan# 1832
Delta R.T. -0.01 min
Lab File: VL033739.D
Acq: 22 May 2019 9:56

Tgt Ion: 75 Resp: 1320550
Ion Ratio Lower Upper
75 100
39 67.2 54.4 81.6
77 31.4 26.6 39.8





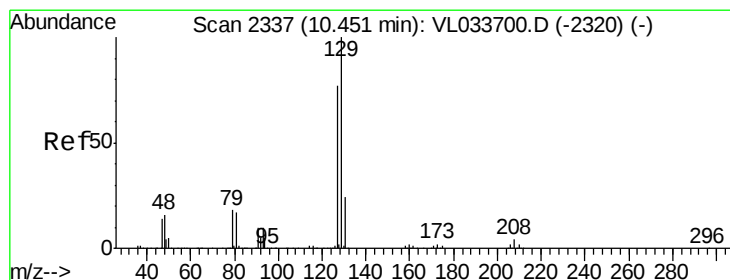
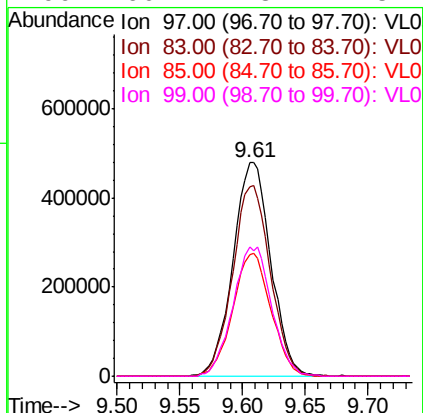
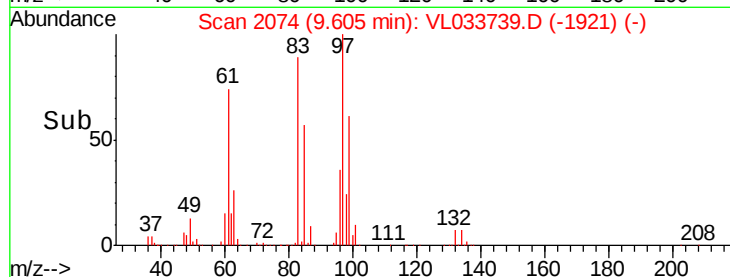
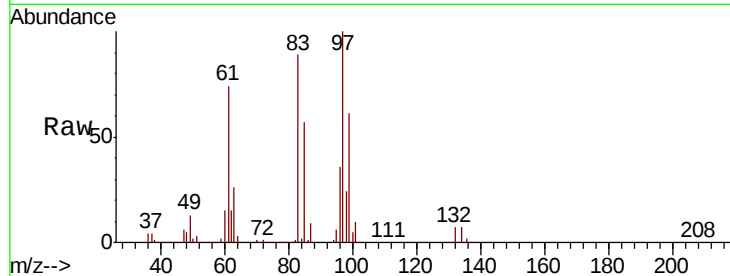
#47
 1,1,2-Trichloroethane
 Concen: 10.787 ppbv
 RT: 9.61 min Scan# 2074
 Delta R.T. -0.01 min
 Lab File: VL033739.D
 Acq: 22 May 2019 9:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
97	100		
83	88.5	70.8	106.2
85	57.0	43.7	65.5
99	60.7	48.7	73.1

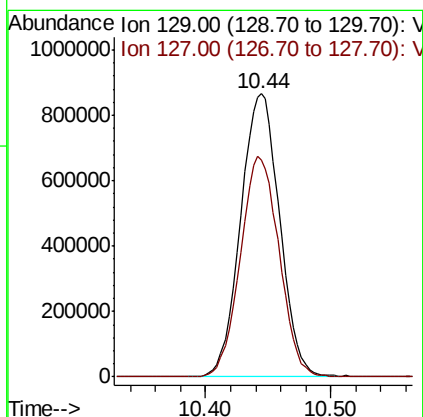
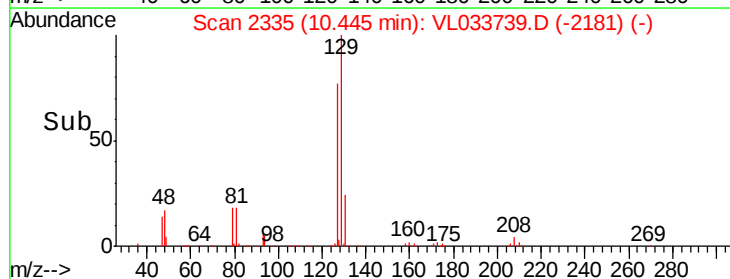
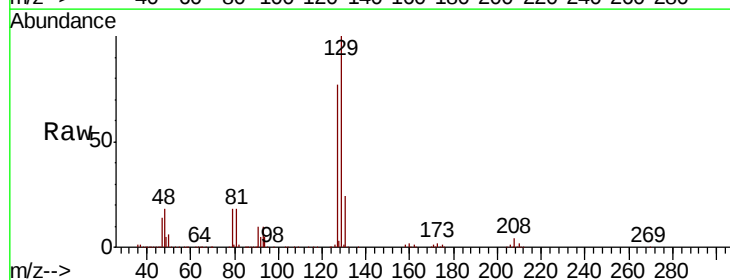
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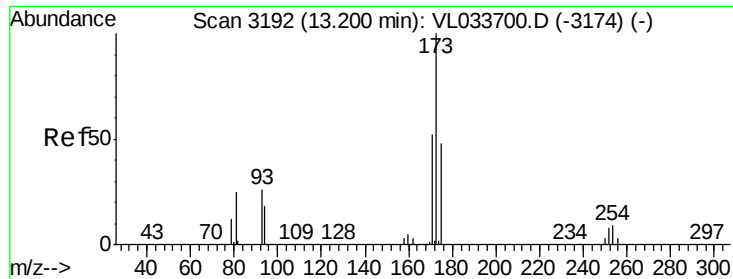
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#48
 Dibromochloromethane
 Concen: 11.551 ppbv
 RT: 10.44 min Scan# 2335
 Delta R.T. -0.01 min
 Lab File: VL033739.D
 Acq: 22 May 2019 9:56

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.6	116.0





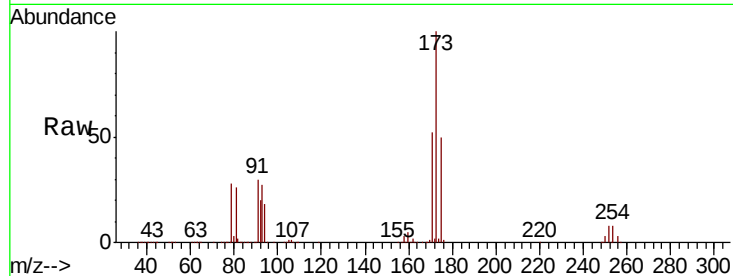
#49
Bromoform
Concen: 12.287 ppbv
RT: 13.19 min Scan# 3190
Delta R.T. -0.01 min
Lab File: VL033739.D
Acq: 22 May 2019 9:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

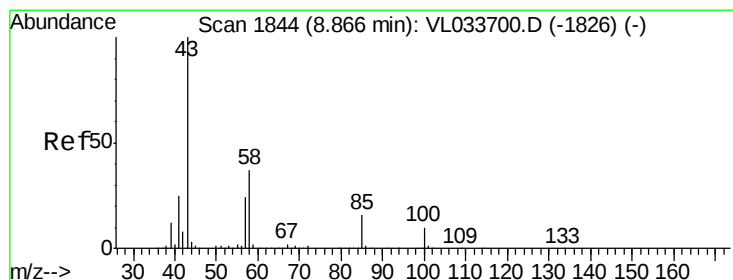
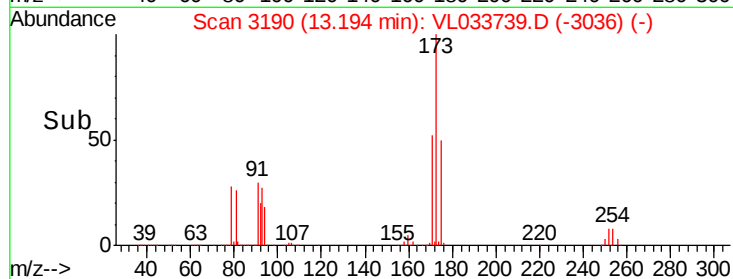
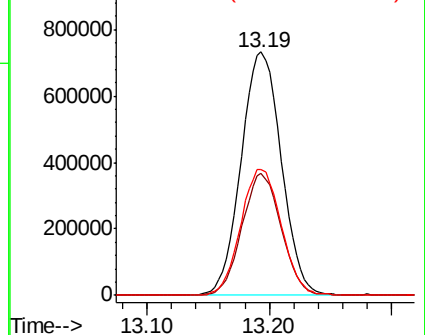
Tot Ion:173 Resp: 1673098
Ion Ratio Lower Upper
173 100
175 49.0 38.6 58.0
171 52.1 41.5 62.3

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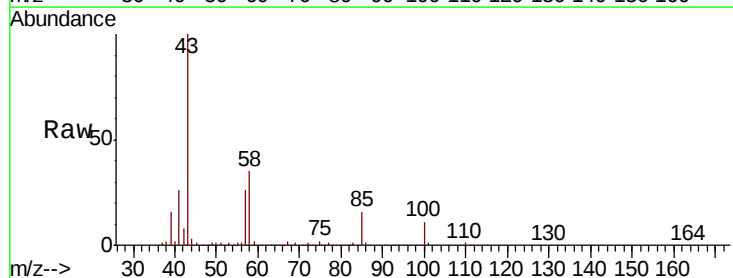


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

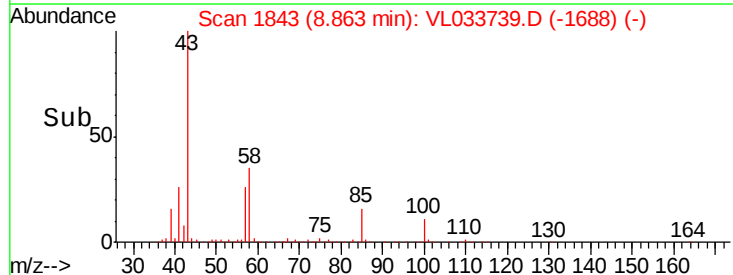
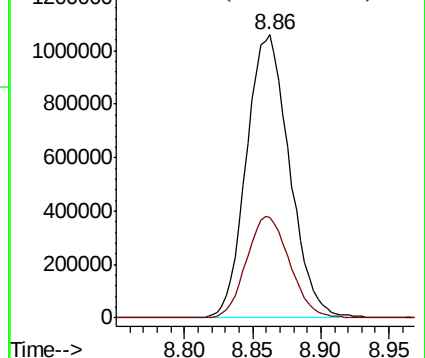


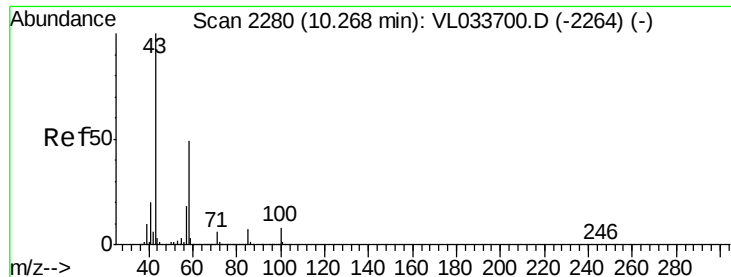
#50
4-Methyl-2-Pentanone
Concen: 10.042 ppbv
RT: 8.86 min Scan# 1843
Delta R.T. -0.00 min
Lab File: VL033739.D
Acq: 22 May 2019 9:56

Tgt Ion: 43 Resp: 2320962
Ion Ratio Lower Upper
43 100
58 36.1 28.6 43.0



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





#51

2-Hexanone

Concen: 11.874 ppbv

RT: 10.26 min Scan# 2279

Delta R.T. -0.00 min

Lab File: VL033739.D

Acq: 22 May 2019 9:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 2141802

Ion Ratio Lower Upper

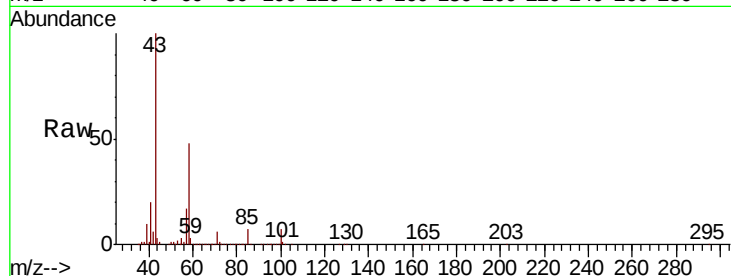
43 100

58 47.9 38.7 58.1

98 0.1 0.2 0.4#

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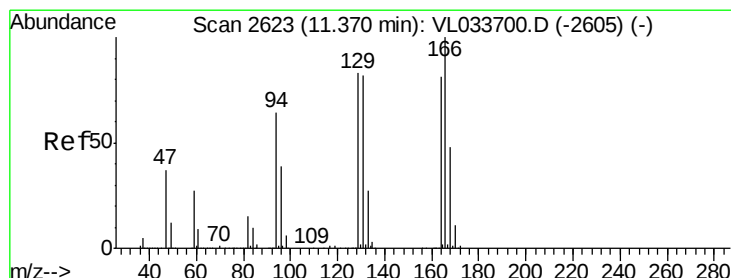
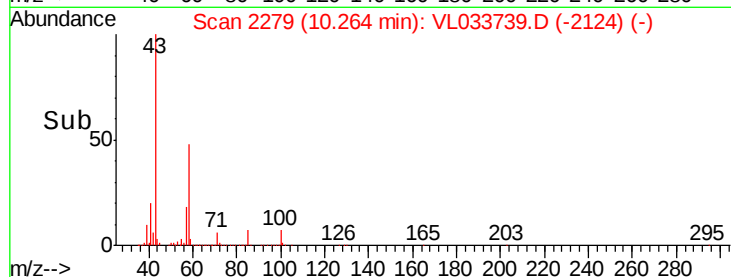
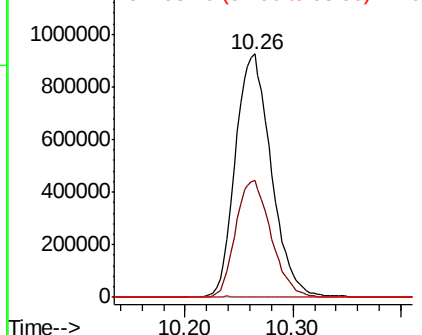


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 11.731 ppbv

RT: 11.37 min Scan# 2622

Delta R.T. -0.00 min

Lab File: VL033739.D

Acq: 22 May 2019 9:56

Tgt Ion: 164 Resp: 909336

Ion Ratio Lower Upper

164 100

166 122.9 98.9 148.3

129 99.3 81.8 122.6

131 97.5 81.1 121.7

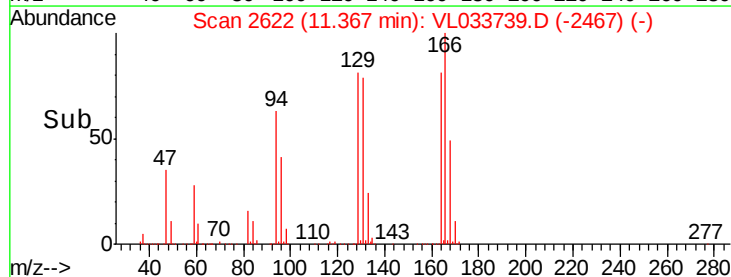
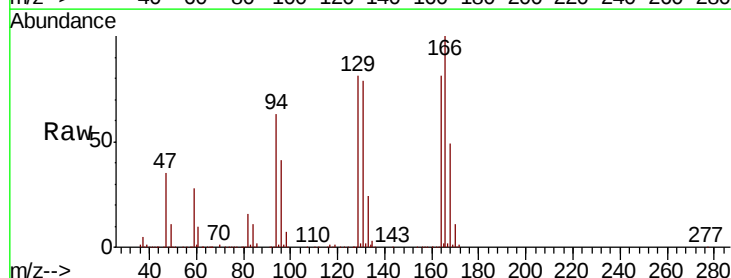
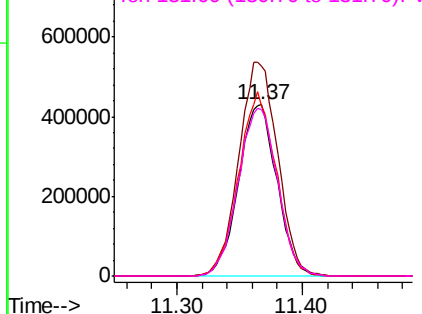
Abundance

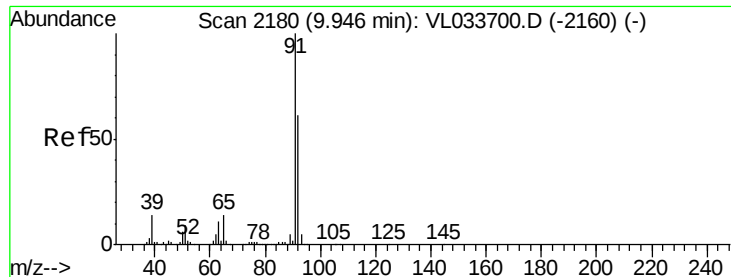
Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 11.715 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033739.D

Acq: 22 May 2019 9:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2786284

Ion Ratio Lower Upper

91 100

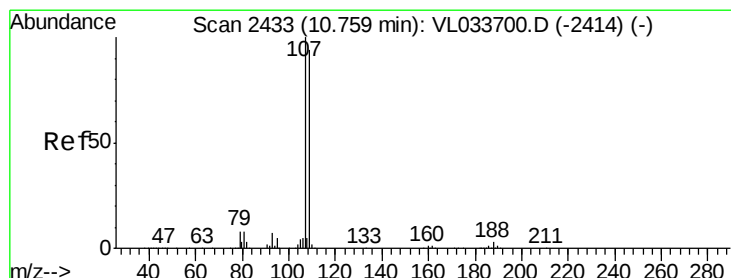
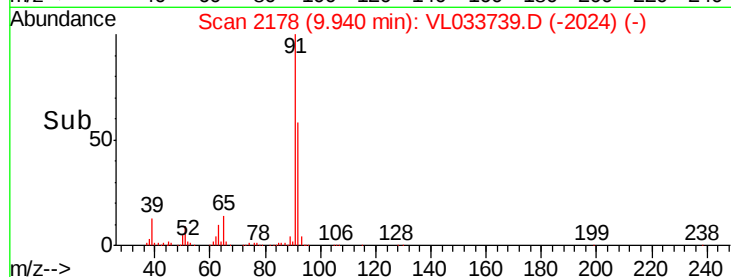
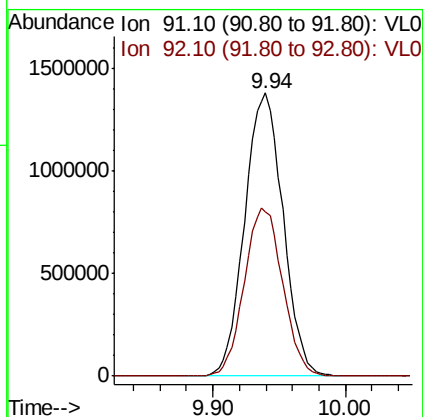
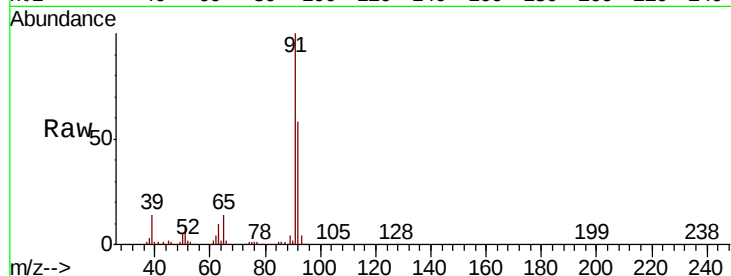
92 59.6 47.6 71.4

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#54

1,2-Dibromoethane

Concen: 11.132 ppbv

RT: 10.75 min Scan# 2430

Delta R.T. -0.01 min

Lab File: VL033739.D

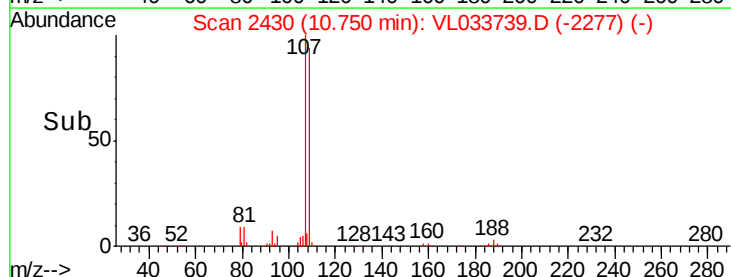
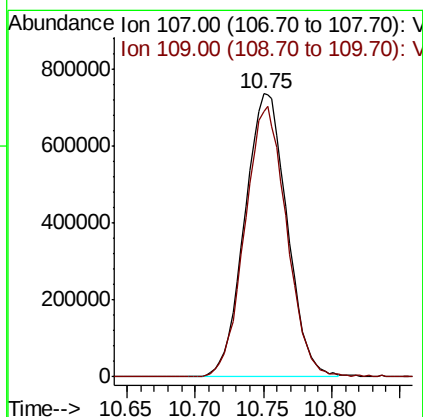
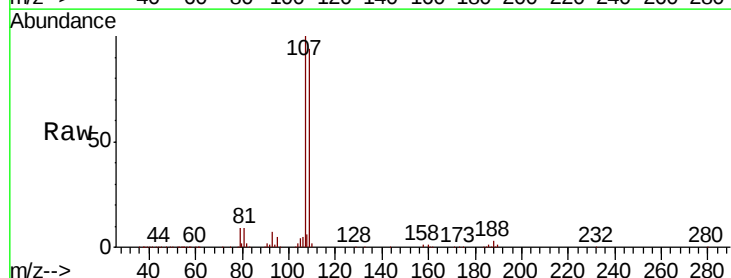
Acq: 22 May 2019 9:56

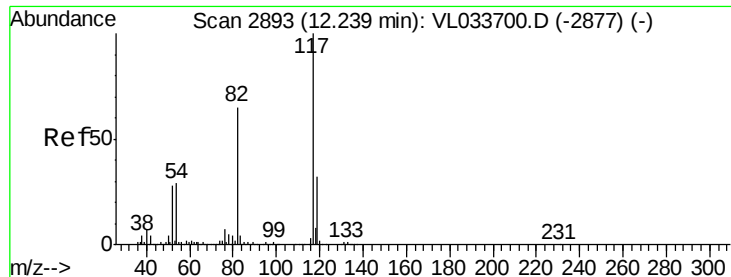
Tgt Ion: 107 Resp: 1586604

Ion Ratio Lower Upper

107 100

109 93.8 75.2 112.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.23 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL033739.D

Acq: 22 May 2019 9:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 2891717

Ion Ratio Lower Upper

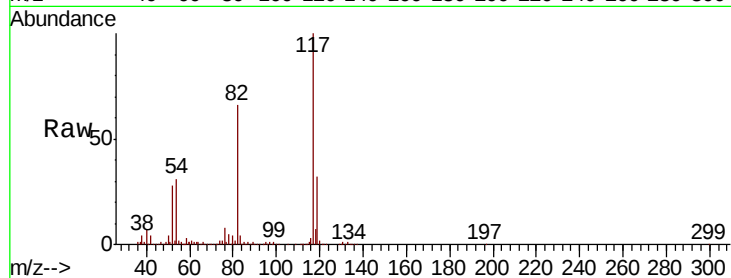
117 100

82 64.5 49.4 74.0

119 34.3 24.9 37.3

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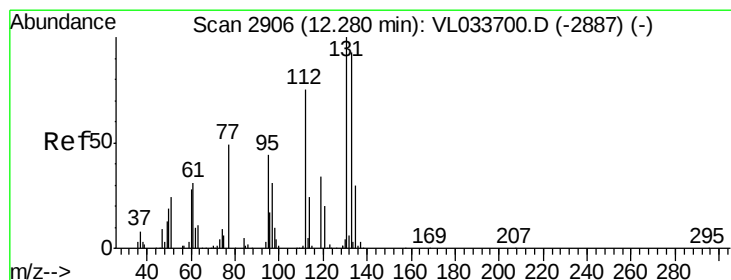
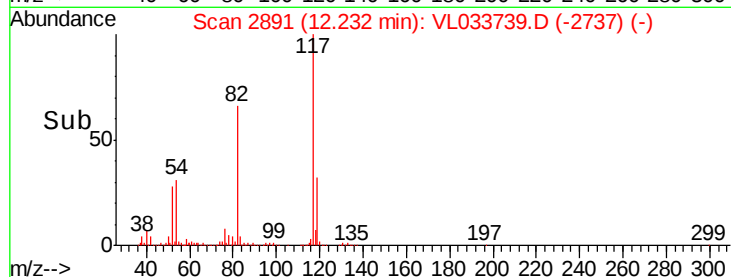
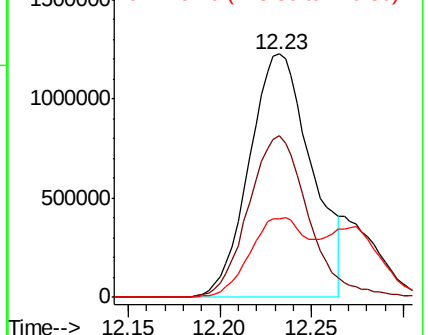
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Abundance Ion 117.10 (116.80 to 117.80): V

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: 9.348 ppbv

RT: 12.27 min Scan# 2903

Delta R.T. -0.01 min

Lab File: VL033739.D

Acq: 22 May 2019 9:56

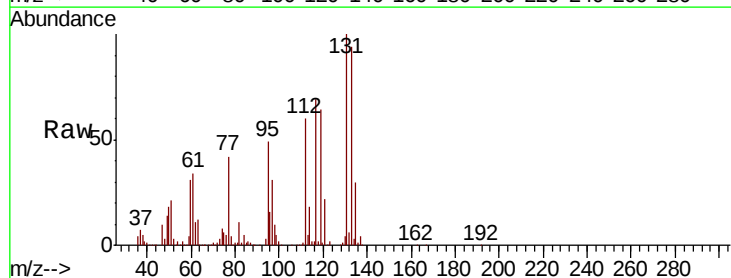
Tgt Ion:131 Resp: 1250859

Ion Ratio Lower Upper

131 100

133 95.3 76.6 114.8

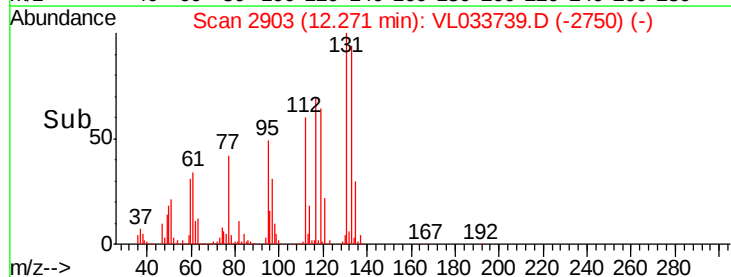
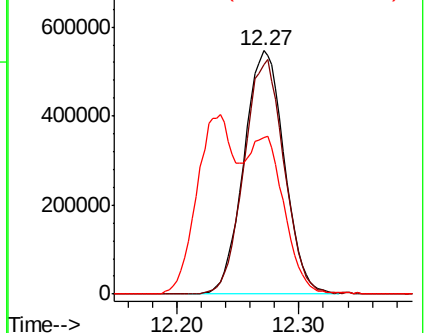
119 51.8 49.0 73.4

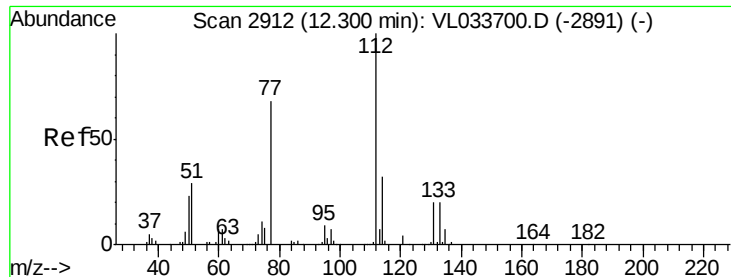


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





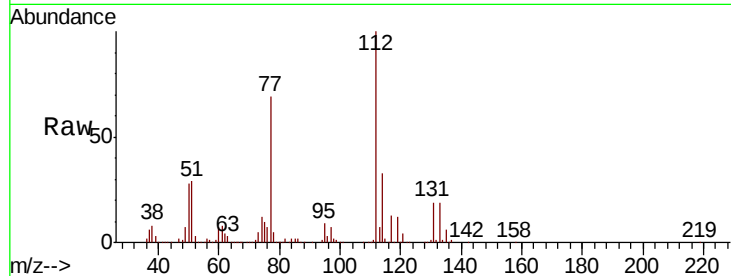
#57
Chlorobenzene
Concen: 9.060 ppbv
RT: 12.29 min Scan# 2910
Delta R.T. -0.01 min
Lab File: VL033739.D
Acq: 22 May 2019 9:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

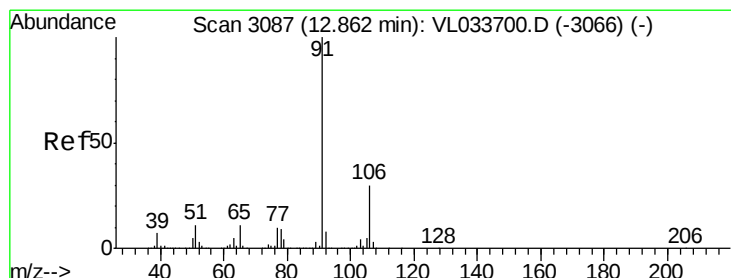
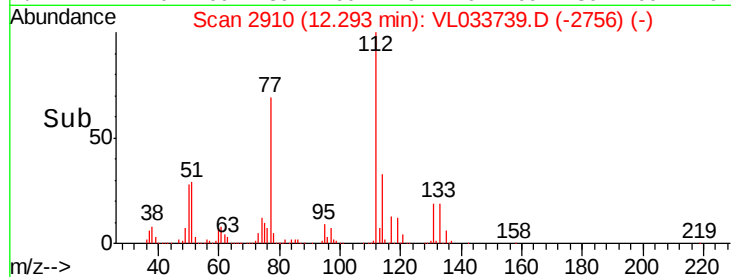
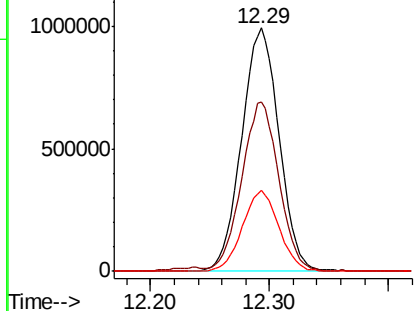
Tot Ion	Ratio	Lower	Upper
112	100		
77	69.1	55.4	83.0
114	33.2	29.3	35.8

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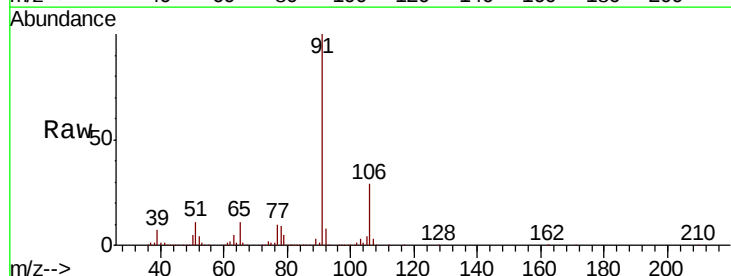


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

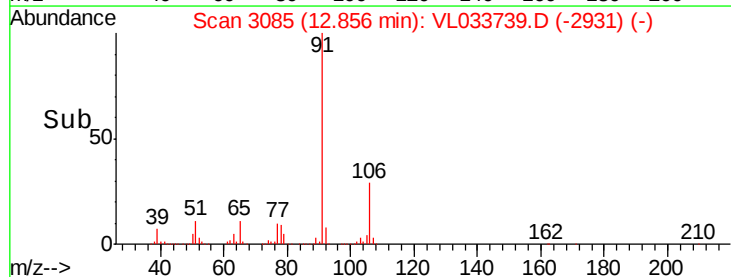
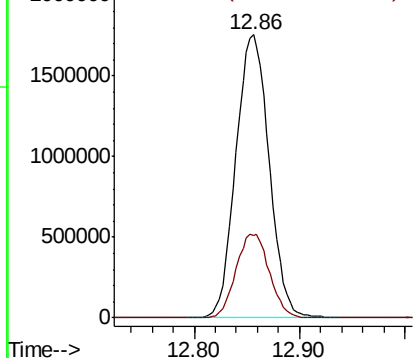


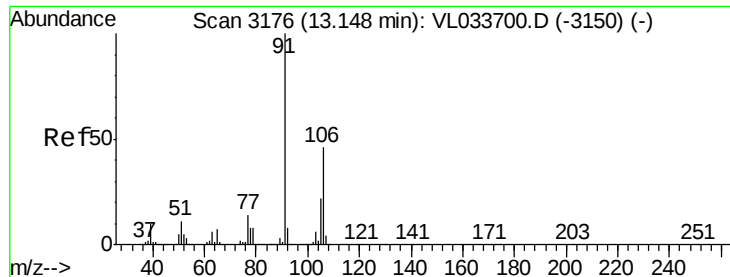
#58
Ethyl Benzene
Concen: 10.061 ppbv
RT: 12.86 min Scan# 3085
Delta R.T. -0.01 min
Lab File: VL033739.D
Acq: 22 May 2019 9:56

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.2	23.9	35.9



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





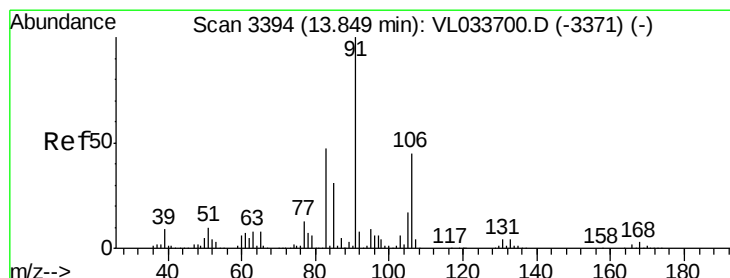
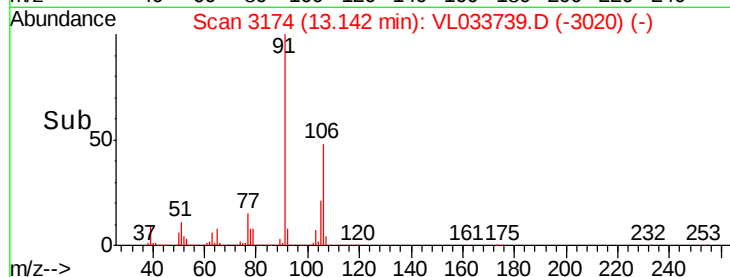
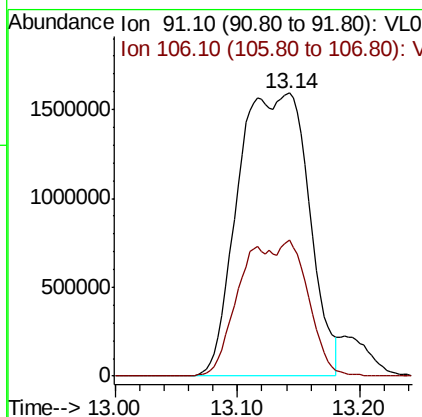
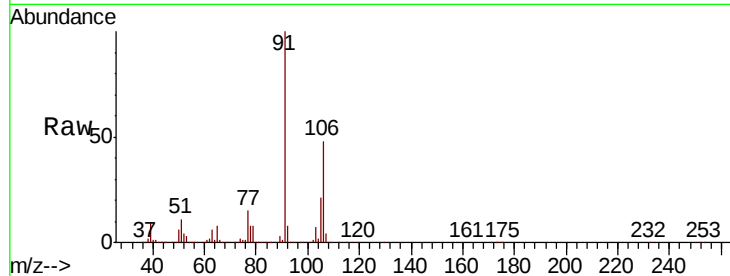
#59
m/p-Xylene
Concen: 19.098 ppbv m
RT: 13.14 min Scan# 3174
Delta R.T. -0.01 min
Lab File: VL033739.D
Acq: 22 May 2019 9:56

Instrument :
MSVOA_L
ClientSampled :
VSTDCCC010

Tot Ion: 91 Resp: 6392959
Ion Ratio Lower Upper
91 100
106 45.5 35.8 53.6

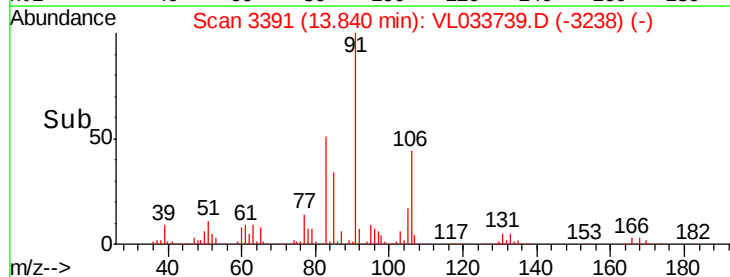
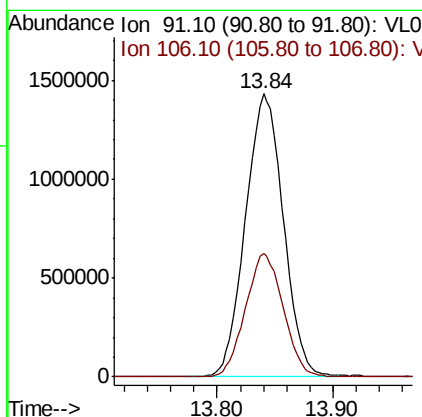
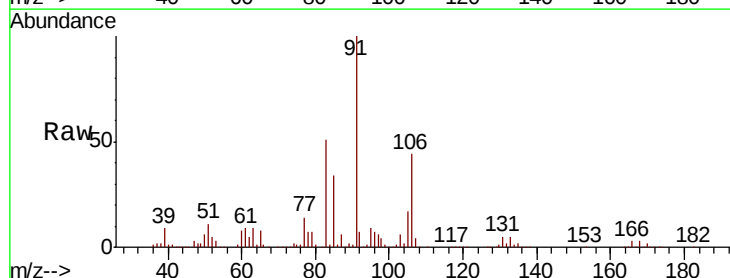
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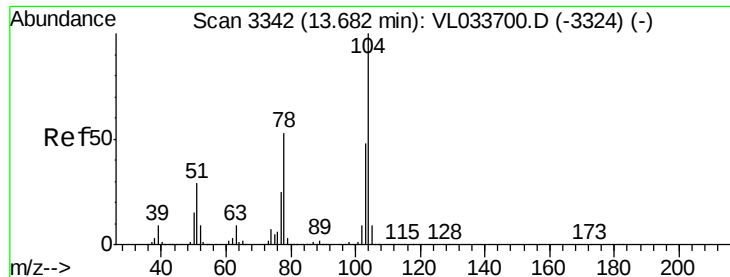
MMDadoda
5/28/2019 2:50:39 AM



#60
o-Xylene
Concen: 9.660 ppbv
RT: 13.84 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL033739.D
Acq: 22 May 2019 9:56

Tgt Ion: 91 Resp: 3259734
Ion Ratio Lower Upper
91 100
106 43.7 21.6 64.8





#61

Stvrene

Concen: 10.635 ppbv

RT: 13.68 min Scan# 3340

Delta R.T. -0.01 min

Lab File: VL033739.D

Acq: 22 May 2019 9:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:104 Resp: 2416221

Ion Ratio Lower Upper

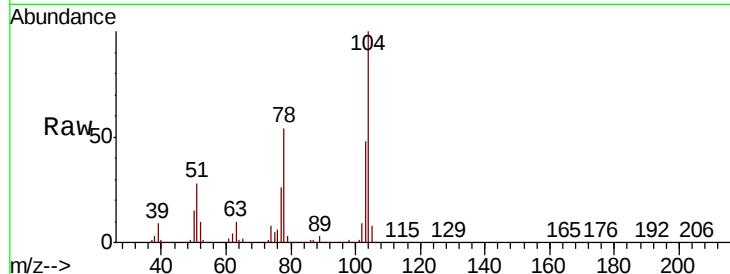
104 100

78 53.7 42.6 64.0

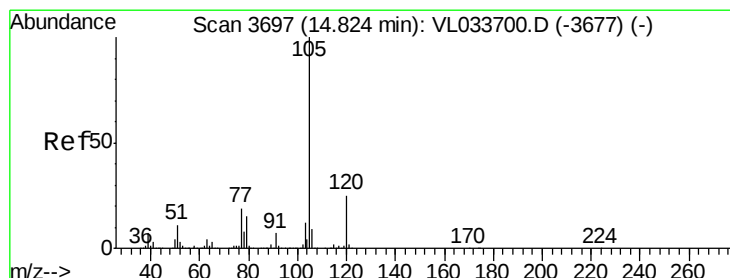
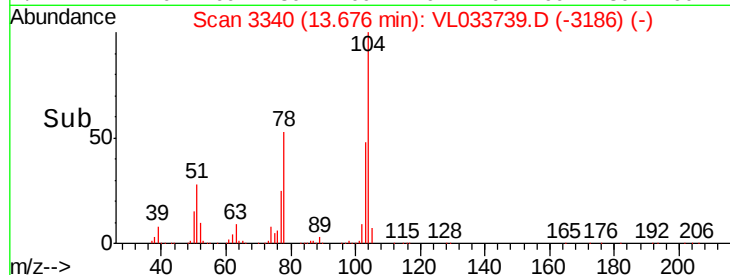
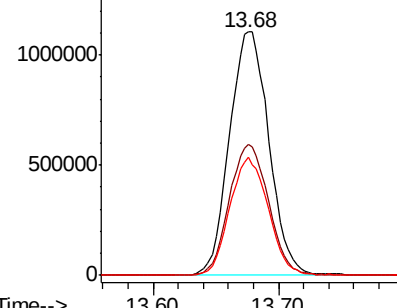
103 47.4 37.8 56.6

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Abundance Ion 104.10 (103.80 to 104.80): V
1500000
Ion 78.10 (77.80 to 78.80): VL0
Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.631 ppbv

RT: 14.82 min Scan# 3695

Delta R.T. -0.01 min

Lab File: VL033739.D

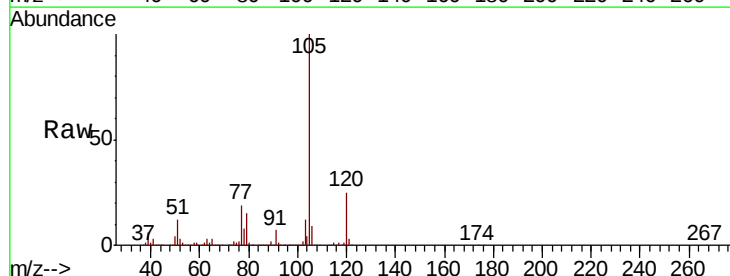
Acq: 22 May 2019 9:56

Tgt Ion:105 Resp: 4376530

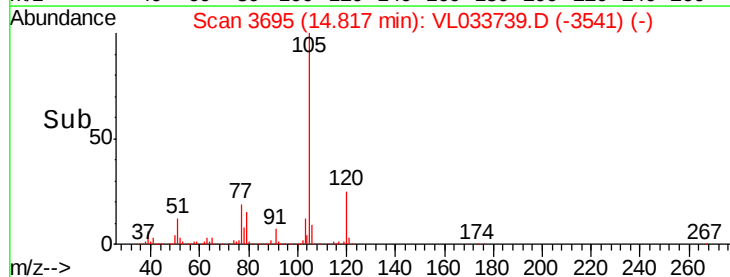
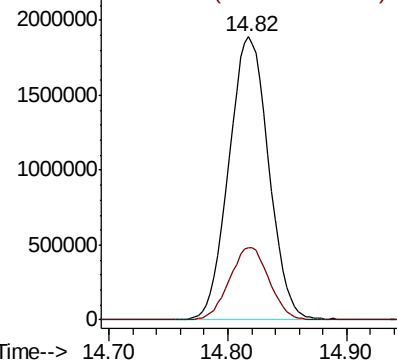
Ion Ratio Lower Upper

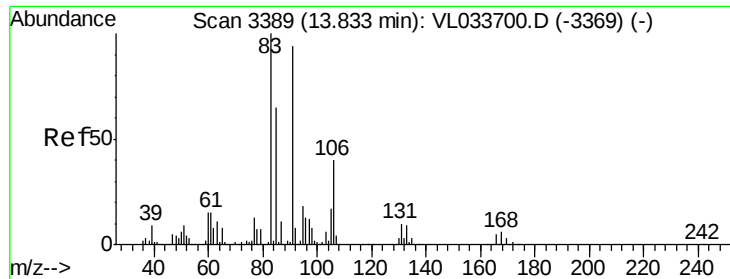
105 100

120 25.5 20.1 30.1



Abundance Ion 105.10 (104.80 to 105.80): V
2000000
Ion 120.20 (119.90 to 120.90): V





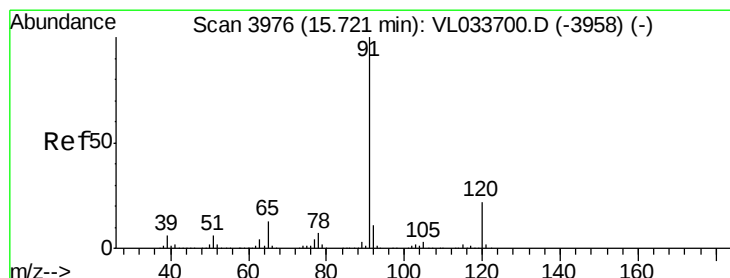
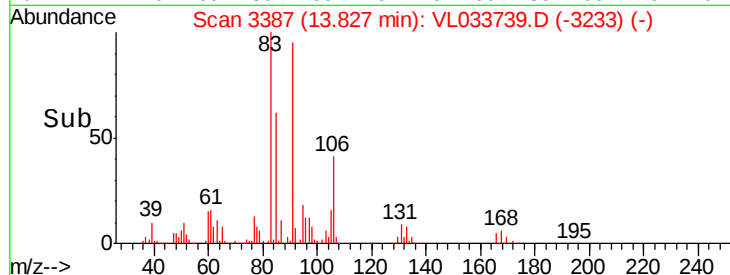
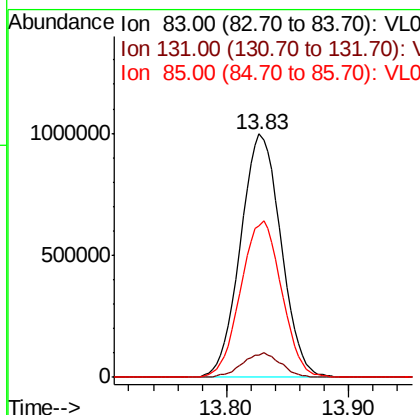
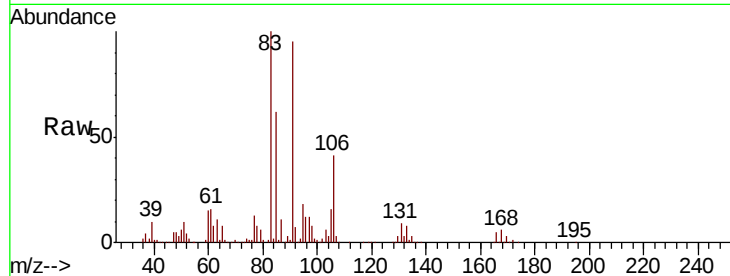
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.316 ppbv
 RT: 13.83 min Scan# 3387
 Delta R.T. -0.01 min
 Lab File: VL033739.D
 Acq: 22 May 2019 9:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.3
85	65.2	32.3	96.9

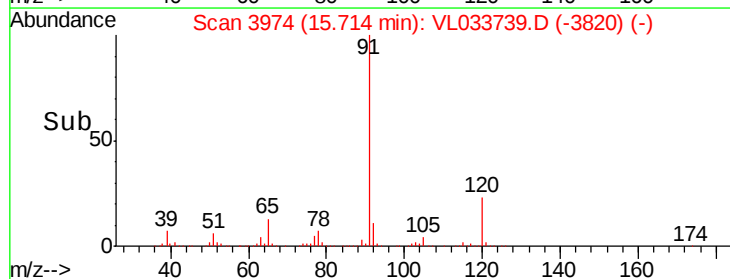
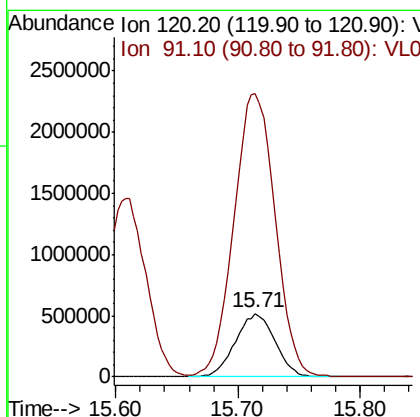
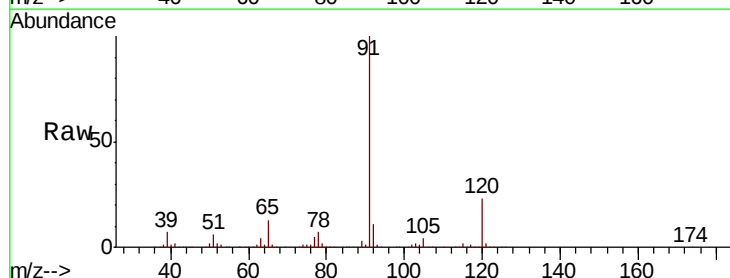
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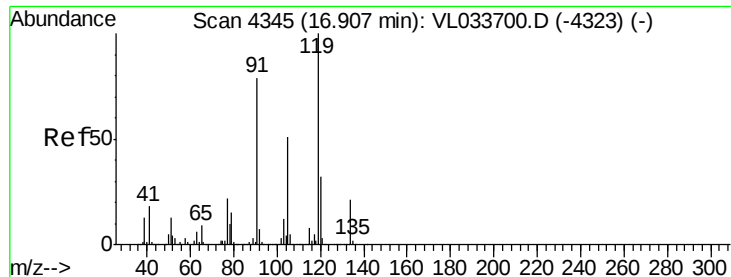
MMDadoda
 5/28/2019 2:50:39 AM



#64
 n-propylbenzene
 Concen: 9.867 ppbv
 RT: 15.71 min Scan# 3974
 Delta R.T. -0.01 min
 Lab File: VL033739.D
 Acq: 22 May 2019 9:56

Tgt Ion	Ratio	Lower	Upper
120	100		
91	468.6	379.1	568.7





#65

tert-Butylbenzene

Concen: 9.669 ppbv

RT: 16.90 min Scan# 4343

Delta R.T. -0.01 min

Lab File: VL033739.D

Acq: 22 May 2019 9:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:119 Resp: 4011558

Ion Ratio Lower Upper

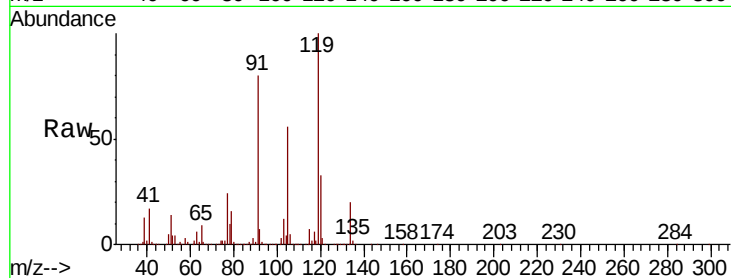
119 100

91 82.6 65.3 97.9

134 19.5 15.7 23.5

Manual Integrations
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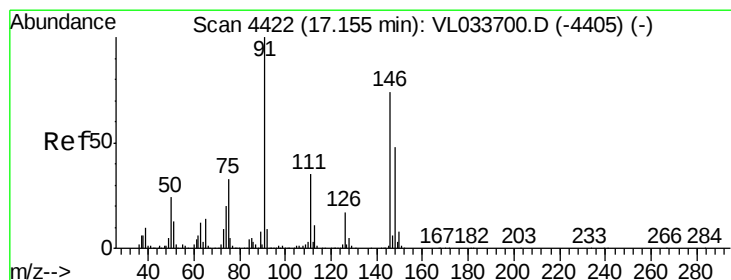
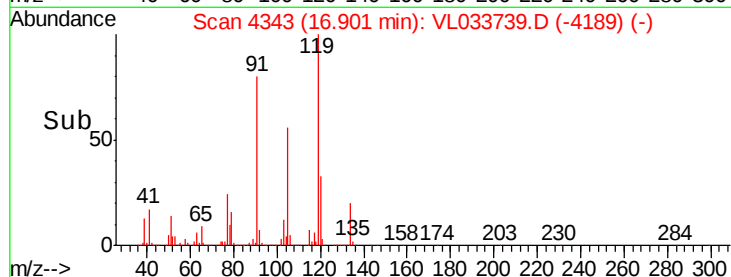
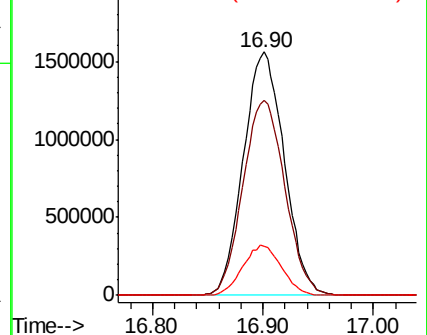
MMDadoda
5/28/2019 2:50:39 AM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 10.646 ppbv

RT: 17.15 min Scan# 4420

Delta R.T. -0.01 min

Lab File: VL033739.D

Acq: 22 May 2019 9:56

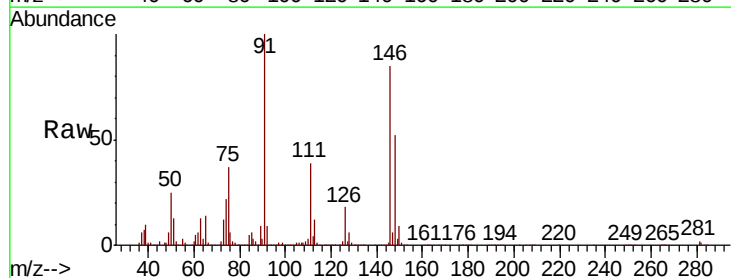
Tgt Ion: 91 Resp: 2103842

Ion Ratio Lower Upper

91 100

126 17.1 13.5 20.3

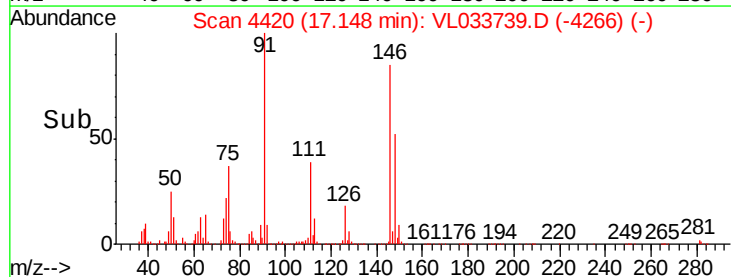
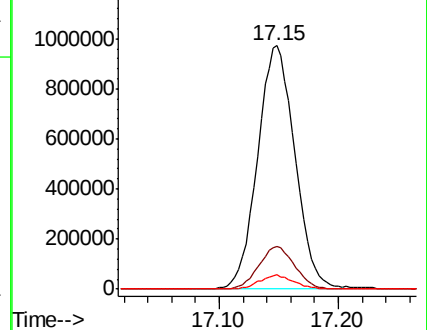
128 5.4 4.3 6.5

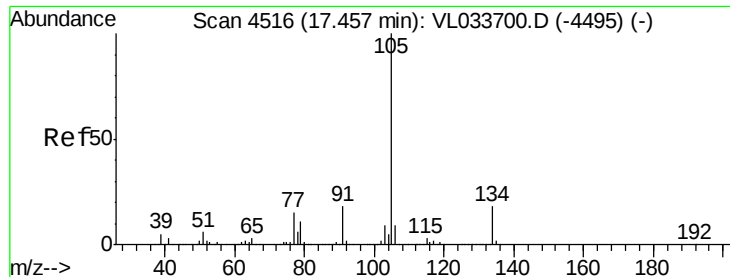


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.669 ppbv

RT: 17.45 min Scan# 4514

Delta R.T. -0.01 min

Lab File: VL033739.D

Acq: 22 May 2019 9:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 5615031

Ion Ratio Lower Upper

105 100

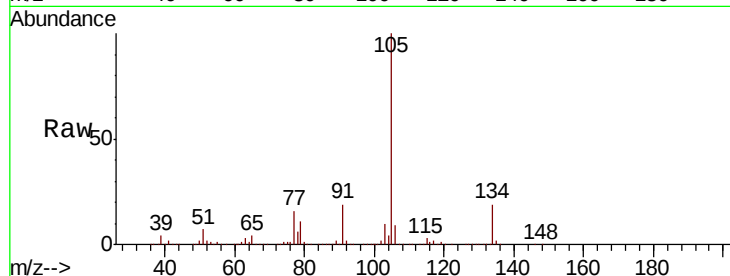
134 18.5 14.6 22.0

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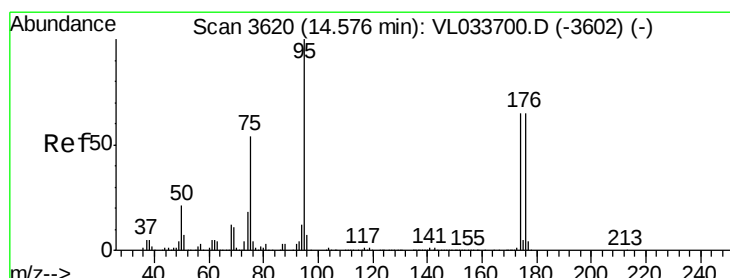
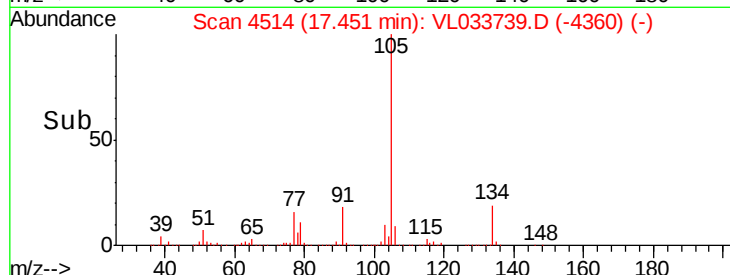
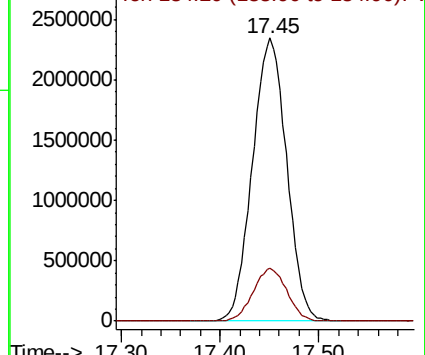
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.737 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. -0.01 min

Lab File: VL033739.D

Acq: 22 May 2019 9:56

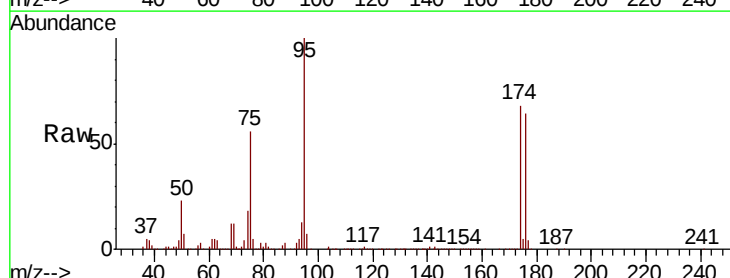
Tgt Ion: 95 Resp: 2282608

Ion Ratio Lower Upper

95 100

174 67.8 53.9 80.9

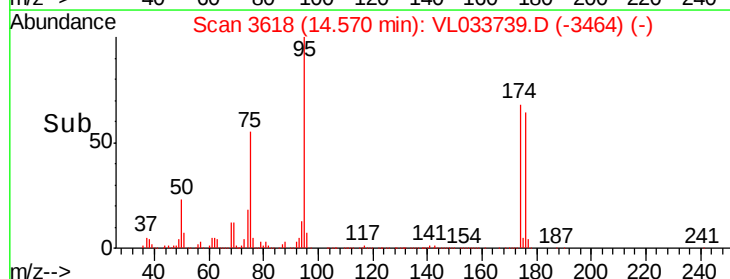
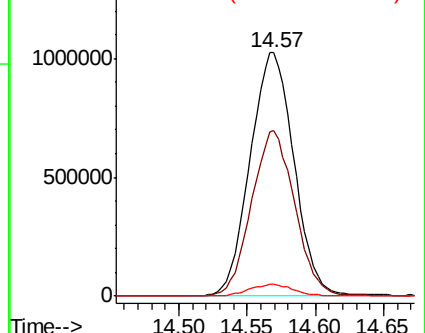
175 4.9 3.8 5.8

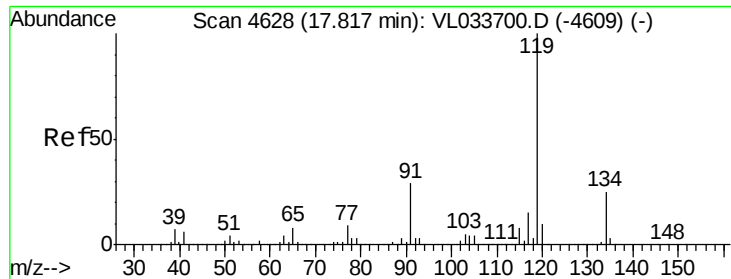


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





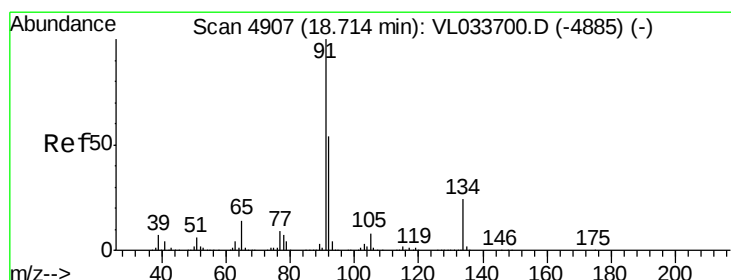
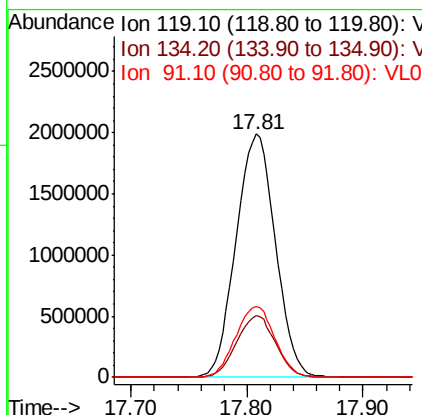
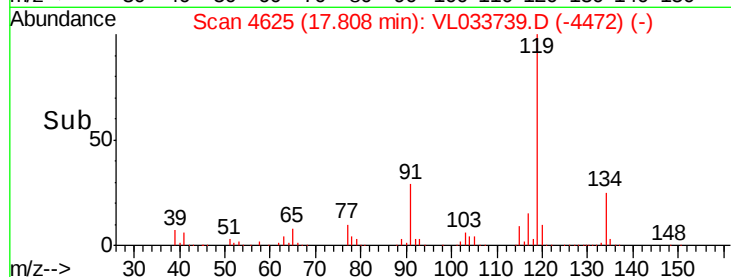
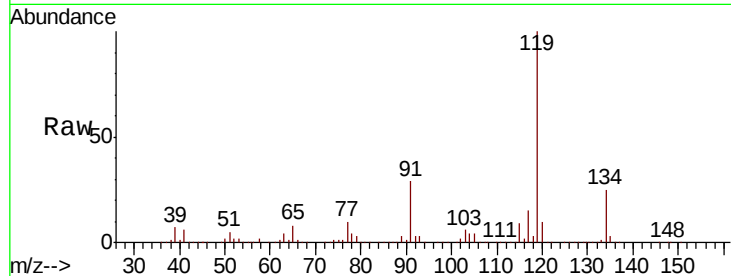
#69
 p-Isopropyltoluene
 Concen: 9.782 ppbv
 RT: 17.81 min Scan# 4625
 Delta R.T. -0.01 min
 Lab File: VL033739.D
 Acq: 22 May 2019 9:56

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010

Tot Ion: 119 Resp: 4695171
 Ion Ratio Lower Upper
 119 100
 134 25.2 20.3 30.5
 91 29.3 23.1 34.7

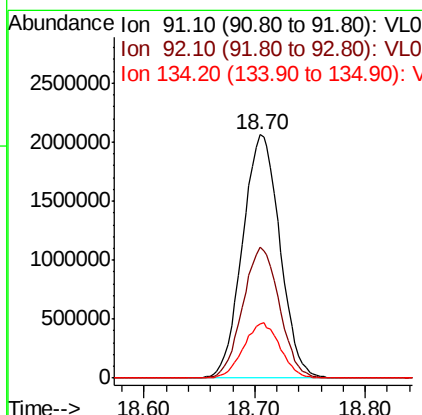
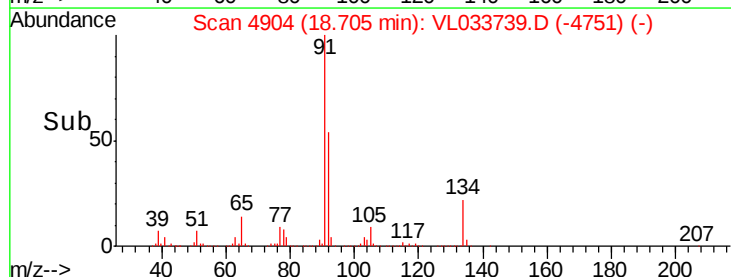
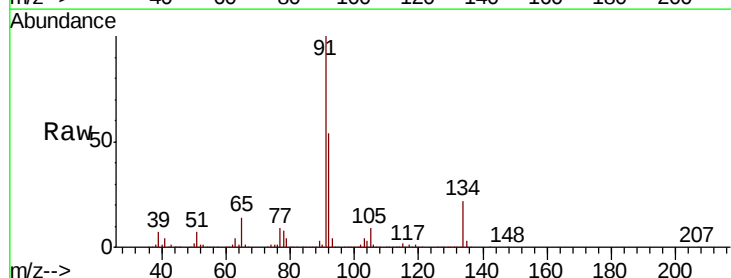
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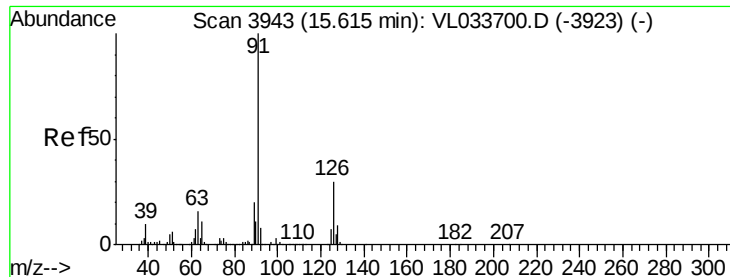
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#70
 n-Butylbenzene
 Concen: 9.402 ppbv
 RT: 18.70 min Scan# 4904
 Delta R.T. -0.01 min
 Lab File: VL033739.D
 Acq: 22 May 2019 9:56

Tgt Ion: 91 Resp: 4839544
 Ion Ratio Lower Upper
 91 100
 92 53.0 42.6 63.8
 134 22.2 18.1 27.1





#71

2-Chlorotoluene

Concen: 9.868 ppbv

RT: 15.61 min Scan# 3941

Delta R.T. -0.01 min

Lab File: VL033739.D

Acq: 22 May 2019 9:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 3326887

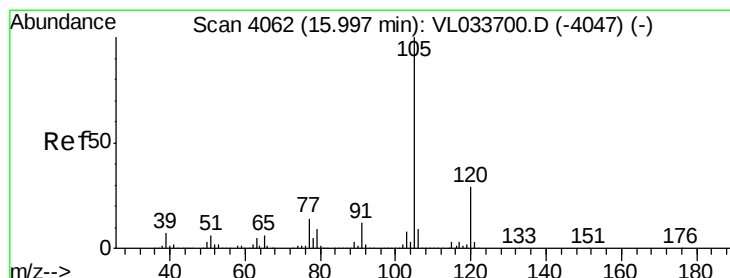
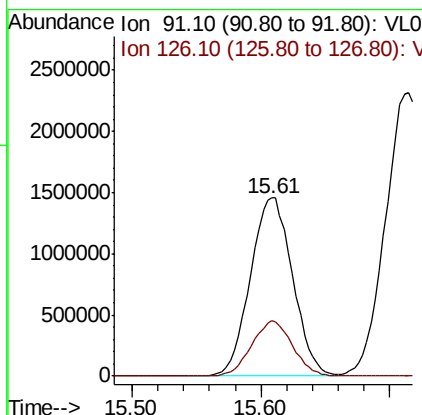
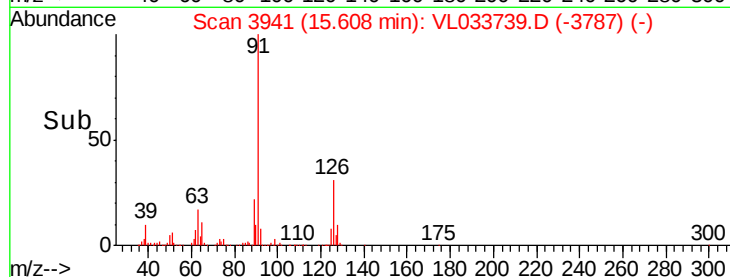
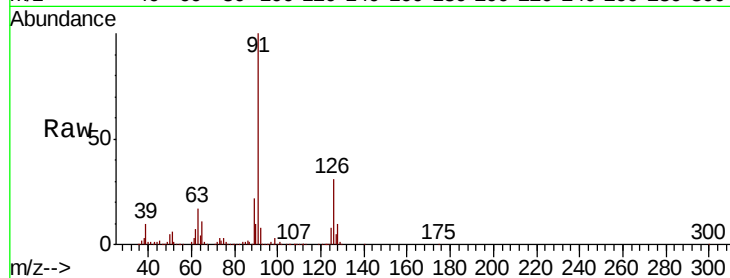
Ion Ratio Lower Upper

91 100

126 30.1 12.0 47.8

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5/28/2019 2:50:39 AM



#72

4-Ethyltoluene

Concen: 10.120 ppbv

RT: 15.99 min Scan# 4060

Delta R.T. -0.01 min

Lab File: VL033739.D

Acq: 22 May 2019 9:56

Tgt Ion: 105 Resp: 3904477

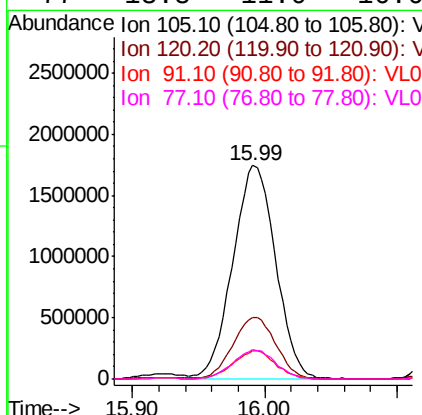
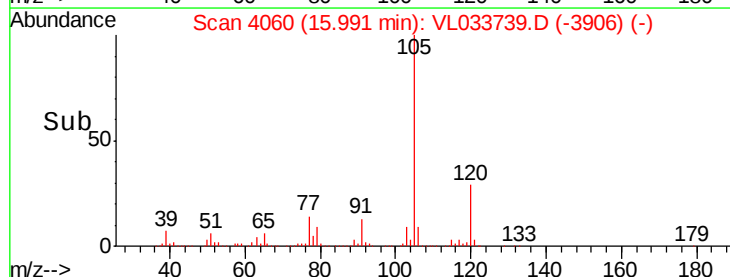
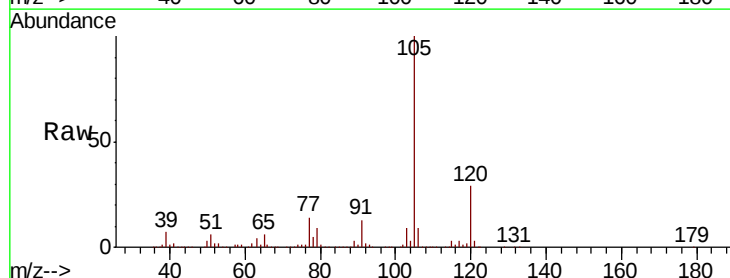
Ion Ratio Lower Upper

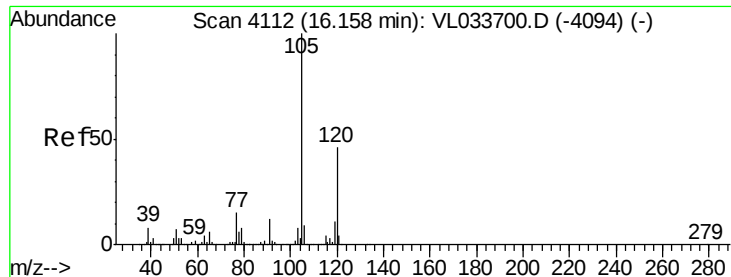
105 100

120 29.0 23.1 34.7

91 13.6 10.4 15.6

77 13.8 11.0 16.6





#73

1,3,5-Trimethylbenzene

Concen: 9.881 ppbv

RT: 16.15 min Scan# 4110

Delta R.T. -0.01 min

Lab File: VL033739.D

Acq: 22 May 2019 9:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 3719601

Ion Ratio Lower Upper

105 100

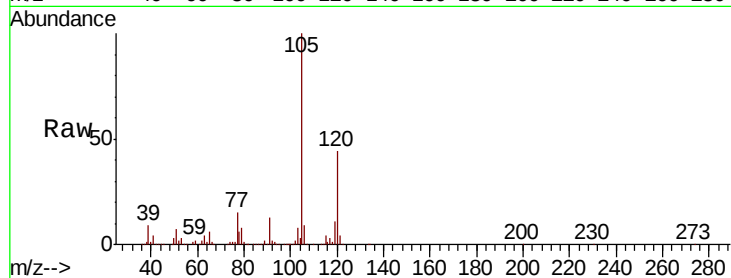
120 44.1 37.0 55.4

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.15

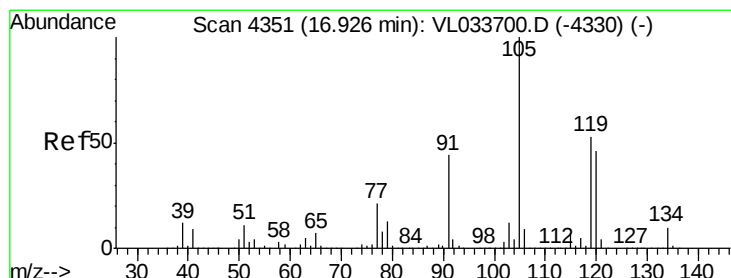
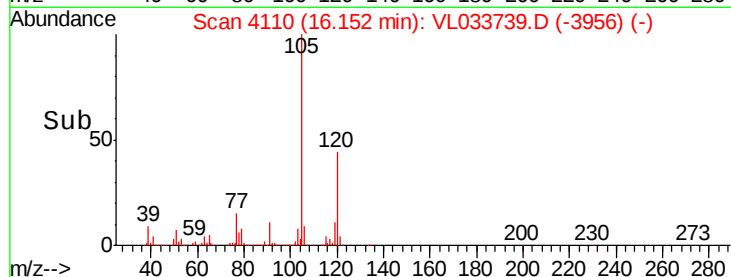
1500000

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 9.357 ppbv

RT: 16.92 min Scan# 4349

Delta R.T. -0.01 min

Lab File: VL033739.D

Acq: 22 May 2019 9:56

Tgt Ion:105 Resp: 3833572

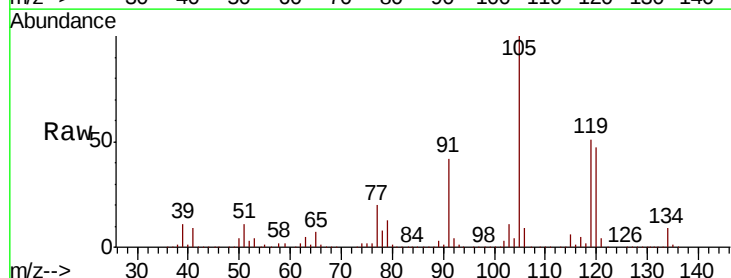
Ion Ratio Lower Upper

105 100

120 47.1 36.8 55.2

91 41.8 35.4 53.0

77 20.2 16.8 25.2



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): VLO

Ion 77.10 (76.80 to 77.80): VLO

2500000

2000000

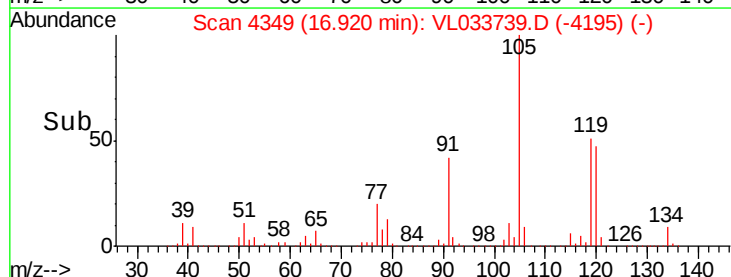
1500000

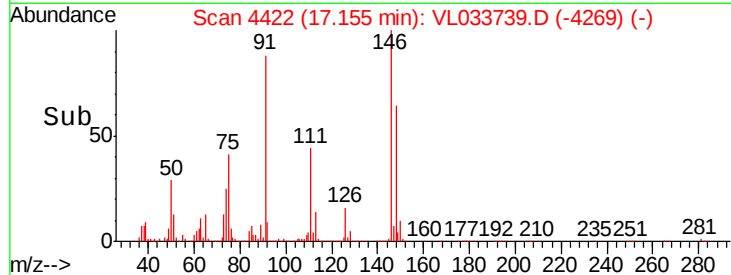
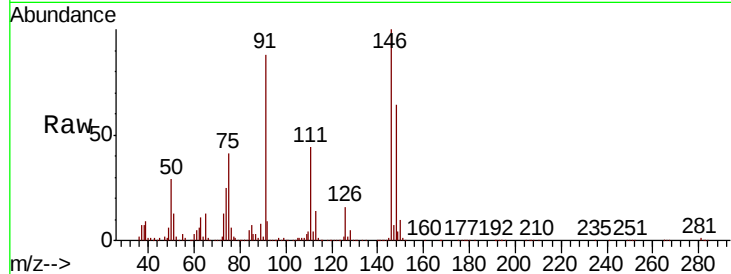
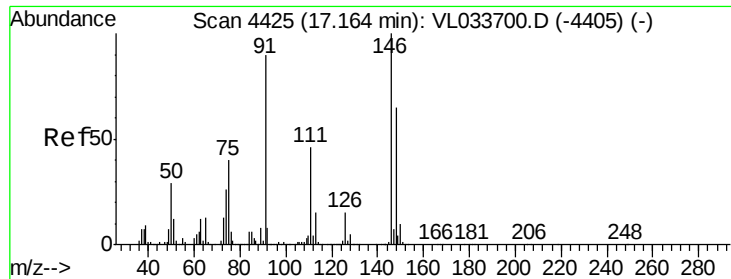
1000000

500000

0

Time-->





#75

1,3-Dichlorobenzene

Concen: 8.815 ppbv

RT: 17.15 min Scan# 4422

Delta R.T. -0.01 min

Lab File: VL033739.D

Acq: 22 May 2019 9:56

Tot Ion:	146	Resp:	2213105
Ion	Ratio	Lower	Upper
146	100		
111	45.6	22.9	68.8
148	64.3	32.0	96.2

Instrument :

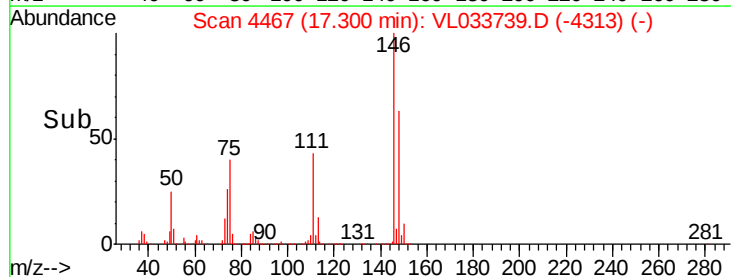
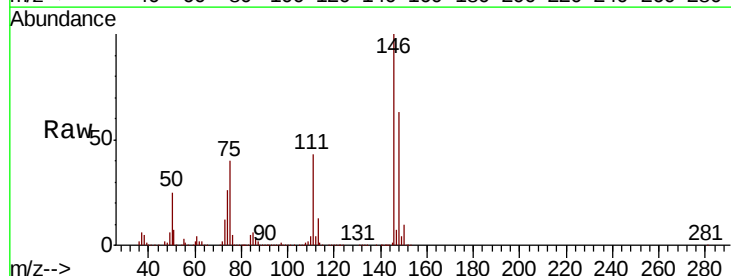
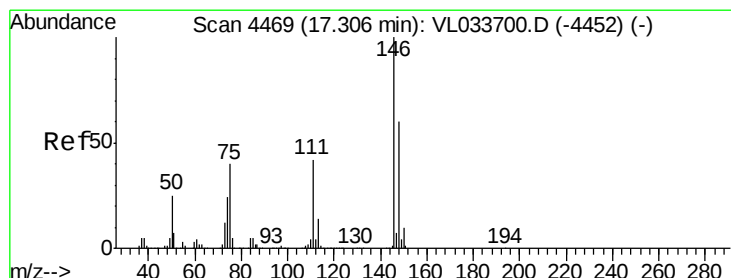
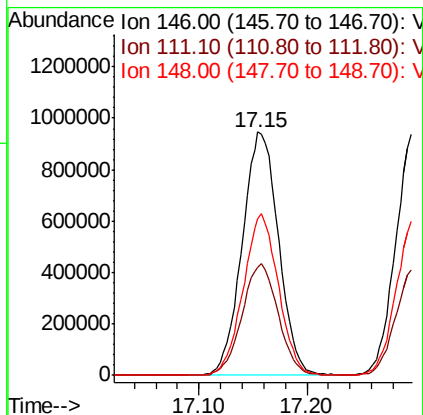
MSVOA_L

ClientSampleId :

VSTDCCC010

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#76

1,4-Dichlorobenzene

Concen: 9.190 ppbv

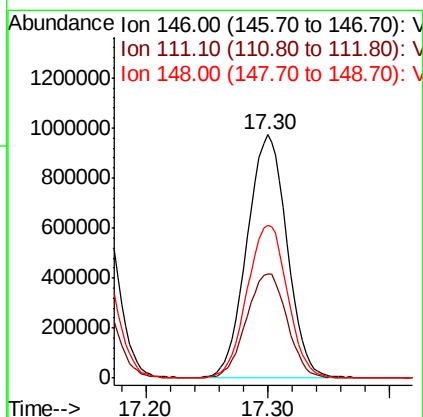
RT: 17.30 min Scan# 4467

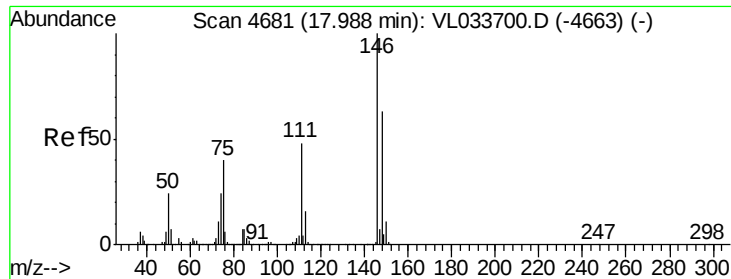
Delta R.T. -0.01 min

Lab File: VL033739.D

Acq: 22 May 2019 9:56

Tgt Ion:	146	Resp:	2192874
Ion	Ratio	Lower	Upper
146	100		
111	44.1	21.9	65.8
148	64.2	32.1	96.3





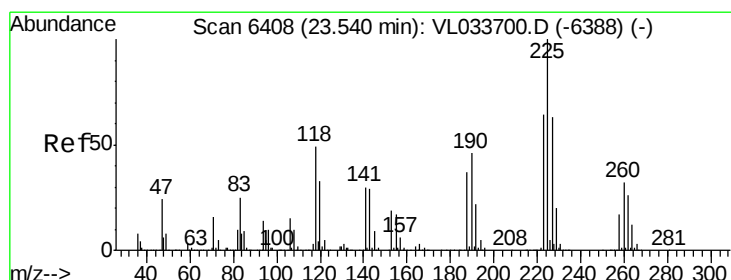
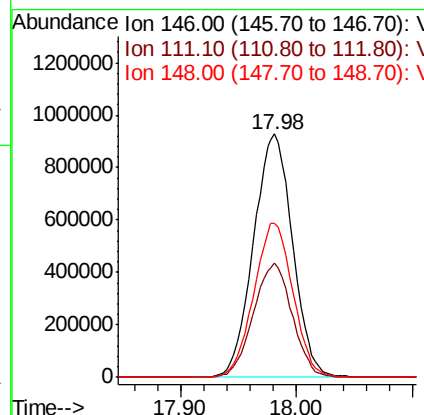
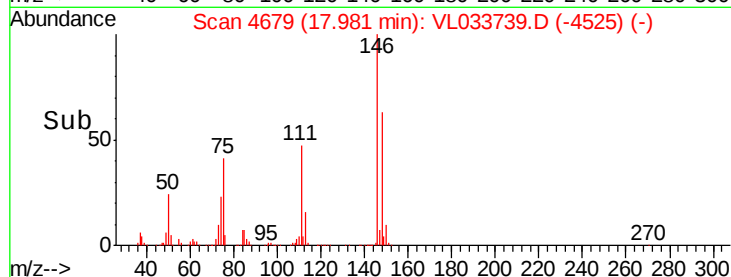
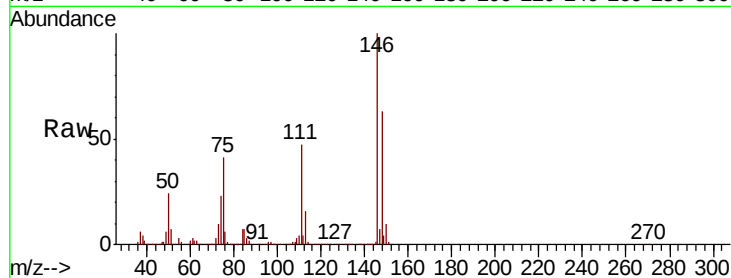
#77
 1,2-Dichlorobenzene
 Concen: 9.211 ppbv
 RT: 17.98 min Scan# 4679
 Delta R.T. -0.01 min
 Lab File: VL033739.D
 Acq: 22 May 2019 9:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:146 Resp: 2172891
 Ion Ratio Lower Upper
 146 100
 111 46.7 23.5 70.5
 148 63.6 32.1 96.3

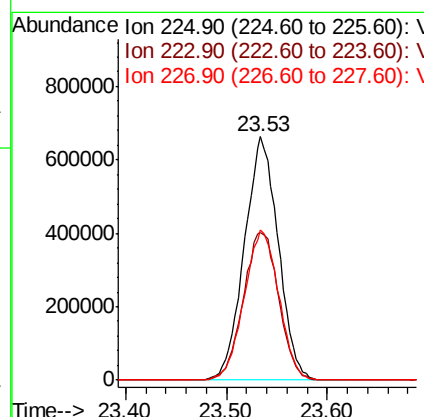
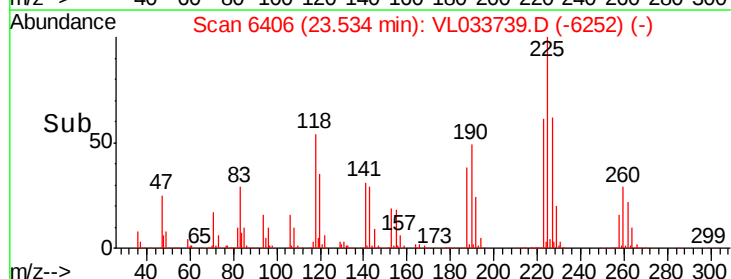
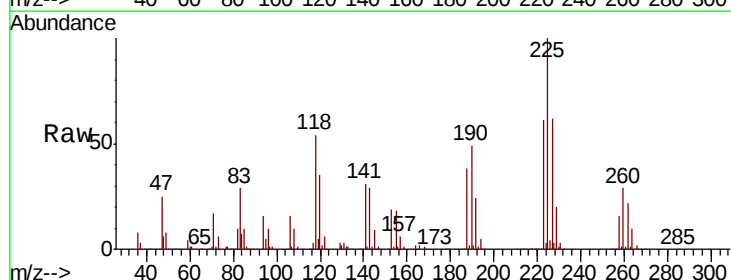
Manual Integrations
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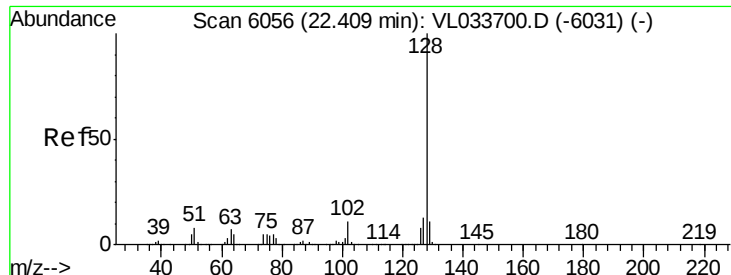
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#78
 Hexachloro-1,3-Butadiene
 Concen: 8.629 ppbv
 RT: 23.53 min Scan# 6406
 Delta R.T. -0.01 min
 Lab File: VL033739.D
 Acq: 22 May 2019 9:56

Tgt Ion:225 Resp: 1538988
 Ion Ratio Lower Upper
 225 100
 223 63.5 50.2 75.4
 227 63.2 50.7 76.1





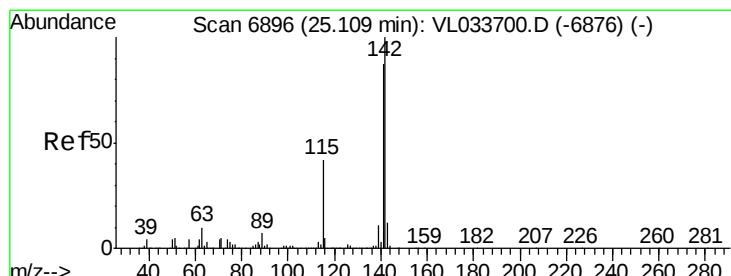
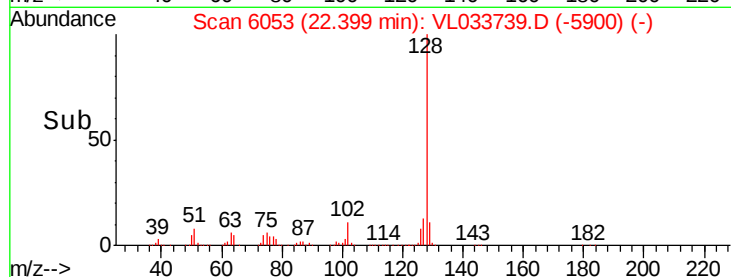
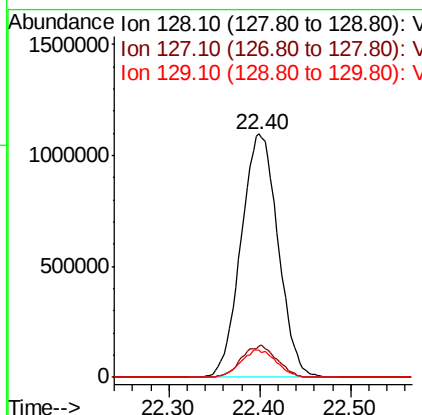
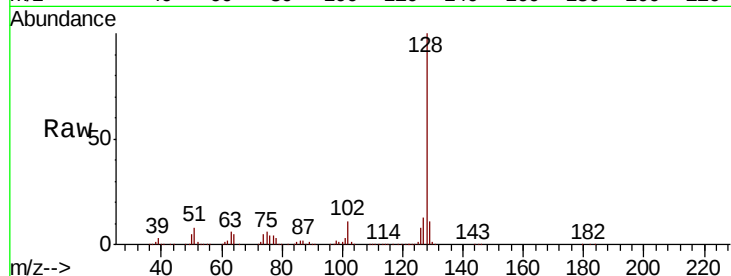
#79
Naphthalene
Concen: 8.142 ppbv
RT: 22.40 min Scan# 6053
Delta R.T. -0.01 min
Lab File: VL033739.D
Acq: 22 May 2019 9:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.6	16.0
129	11.0	8.9	13.3

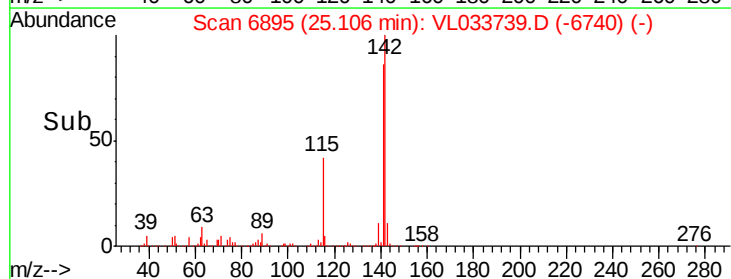
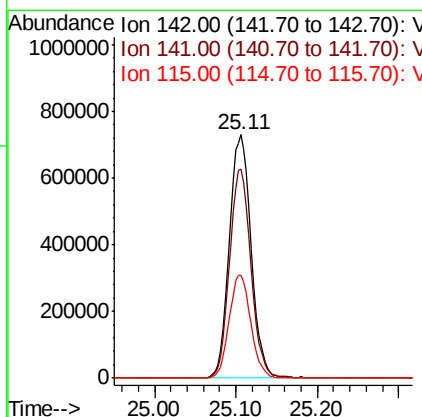
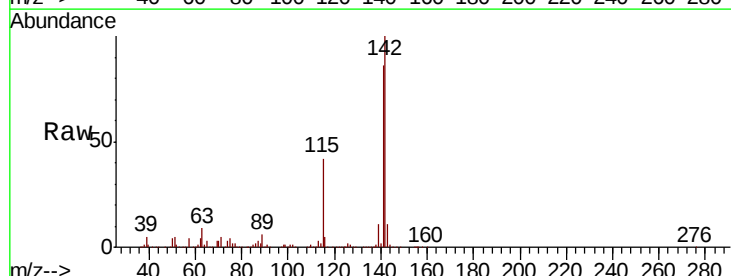
Manual Integrations
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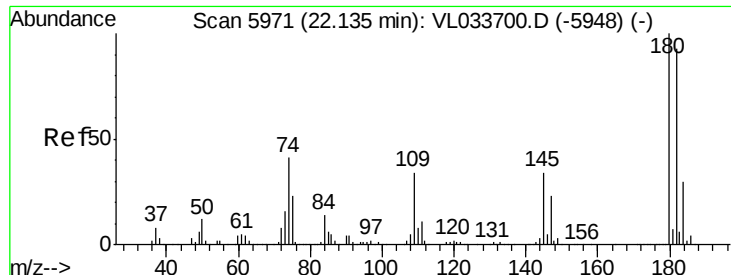
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#80
Naphthalene, 2-methyl-
Concen: 9.541 ppbv
RT: 25.11 min Scan# 6895
Delta R.T. -0.00 min
Lab File: VL033739.D
Acq: 22 May 2019 9:56

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.7	67.2	100.8
115	42.2	34.1	51.1





#81
 1,2,4-Trichlorobenzene
 Concen: 7.902 ppbv
 RT: 22.12 min Scan# 5967
 Delta R.T. -0.01 min
 Lab File: VL033739.D
 Acq: 22 May 2019 9:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.1	114.1
184	30.8	24.6	37.0

Manual Integrations
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