

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071719\
 Data File : VL034037.D
 Acq On : 17 Jul 2019 17:54
 Operator : SY/AP
 Sample : VL0717ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0717ABS01

Manual Integrations
 APPROVED

MMDadoda
 7/19/2019 1:37:12 AM

Quant Time: Jul 18 04:57:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 0
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	1164722	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.25	114	3081533	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.19	117	3085114m	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.53	95	2387790	9.07	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	90.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	1942878	8.083	ppbv 99
3) Chlorodifluoromethane	2.99	51	1278882	8.892	ppbv 100
4) Chloromethane	3.15	50	756502	9.147	ppbv 98
5) Vinyl Chloride	3.27	62	808887	8.698	ppbv 89
6) Bromomethane	3.49	94	520187	9.486	ppbv 98
7) Chloroethane	3.57	64	315742	9.500	ppbv 90
8) Dichlorotetrafluoroethane	3.20	85	2083247	8.890	ppbv 99
9) Propene	3.01	41	505007	9.545	ppbv 98
10) Heptane	8.21	43	1395722	10.535	ppbv 100
11) Trichlorofluoromethane	3.98	101	2220311	8.215	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.52	101	1592768	8.326	ppbv 98
13) Ethanol	3.63	45	123556	7.517	ppbv 100
14) Bromoethene	3.76	108	681984	9.546	ppbv 99
15) Acetone	3.88	43	1530745	7.817	ppbv 98
16) 1,3-Butadiene	3.34	39	700861	10.136	ppbv 98
17) tert-Butyl alcohol	4.33	59	1411818	9.043	ppbv 98
18) 1,1-Dichloroethene	4.32	96	724807	8.507	ppbv 95
19) Isopropyl Alcohol	4.00	45	1078801	8.207	ppbv 100
20) Methylene Chloride	4.38	84	622993	7.294	ppbv 98
21) Allyl Chloride	4.45	41	1099184	9.002	ppbv 99
22) trans-1,2-Dichloroethene	4.93	96	749600	9.233	ppbv 96
23) Vinyl Acetate	5.12	43	2074049	10.611	ppbv 98
24) 1,1-Dichloroethane	5.06	63	1636941	9.450	ppbv 99
25) Ethyl Acetate	5.73	43	2643521	9.870	ppbv 100
26) Hexane	5.74	57	1199439	9.786	ppbv 100
27) Carbon Disulfide	4.59	76	1933632	9.280	ppbv 100
28) Methyl tert-Butyl Ether	5.08	73	2137357	10.297	ppbv 100
29) Chloroform	5.81	83	2069286	8.984	ppbv 100
30) Cyclohexane	7.20	84	1033186m	10.915	ppbv
31) cis-1,2-Dichloroethene	5.61	61	1249148	10.549	ppbv 97
32) 1,1,1-Trichloroethane	6.58	97	2083998	8.927	ppbv 98
34) 2-Butanone	5.30	43	1635579	10.029	ppbv 99
35) Carbon Tetrachloride	7.10	117	2198923	9.014	ppbv 97
36) Benzene	6.97	78	2486904	10.314	ppbv 97
37) 1,2-Dichloroethane	6.38	62	1581400	8.903	ppbv 99
38) Trichloroethene	7.92	130	1064604	9.923	ppbv 94
39) 1,2-Dichloropropane	7.70	63	908168	10.129	ppbv 95
40) 1,4-Dioxane	7.92	88	375940m	9.082	ppbv
41) Tetrahydrofuran	6.11	42	856420	10.708	ppbv 100
42) Bromodichloromethane	7.88	83	2277255	9.555	ppbv 99
43) Methyl Methacrylate	8.10	69	1013069	11.074	ppbv 99

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Instrument :
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 ClientSampleId :
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Manual Integrations
 APPROVED

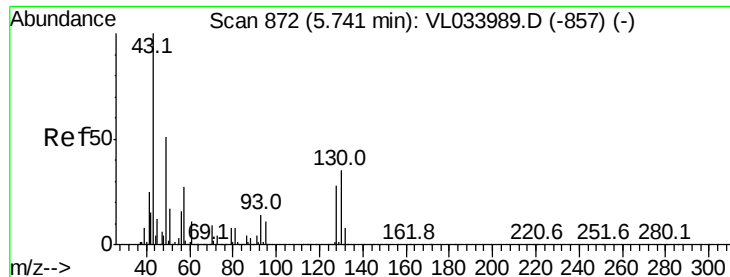
MMDadoda
 7/19/2019 1:37:12 AM

Quant Time: Jul 18 04:57:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 0
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.95	57	4157381	9.989	ppbv	100
45) t-1,3-Dichloropropene	9.37	75	1389599	11.616	ppbv	97
46) cis-1,3-Dichloropropene	8.79	75	1546458	11.162	ppbv	96
47) 1,1,2-Trichloroethane	9.57	97	1059014	9.394	ppbv	97
48) Dibromochloromethane	10.41	129	1906290	8.862	ppbv	98
49) Bromoform	13.15	173	1704235	9.274	ppbv	99
50) 4-Methyl-2-Pentanone	8.83	43	2458478	10.159	ppbv	99
51) 2-Hexanone	10.23	43	1992355	10.208	ppbv #	100
52) Tetrachloroethene	11.33	164	994335	9.581	ppbv	99
53) Toluene	9.90	91	3004262	10.885	ppbv	100
54) 1,2-Dibromoethane	10.72	107	1637376	9.842	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.24	131	1279590	9.280	ppbv	98
57) Chlorobenzene	12.25	112	2287620	9.314	ppbv	98
58) Ethyl Benzene	12.82	91	4000094	10.782	ppbv	99
59) m/p-Xylene	13.11	91	6735550m	20.051	ppbv	
60) o-Xylene	13.80	91	3300765	9.822	ppbv	98
61) Styrene	13.64	104	2420673	10.884	ppbv	99
62) Isopropylbenzene	14.78	105	4376510	8.472	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.79	83	2213964	8.511	ppbv	99
64) n-propylbenzene	15.67	120	1134374	8.468	ppbv	99
65) tert-Butylbenzene	16.86	119	3916925	8.916	ppbv	100
66) Benzyl Chloride	17.11	91	2185300	9.723	ppbv	100
67) sec-Butylbenzene	17.41	105	5568445	9.030	ppbv	100
69) p-Isopropyltoluene	17.77	119	4657715	9.161	ppbv	100
70) n-Butylbenzene	18.67	91	4902889	9.180	ppbv	100
71) 2-Chlorotoluene	15.57	91	3317213	8.774	ppbv	98
72) 4-Ethyltoluene	15.96	105	3878411	8.987	ppbv	98
73) 1,3,5-Trimethylbenzene	16.11	105	3715662	9.253	ppbv	100
74) 1,2,4-Trimethylbenzene	16.88	105	3863295	8.686	ppbv	98
75) 1,3-Dichlorobenzene	17.12	146	2297165	8.131	ppbv	99
76) 1,4-Dichlorobenzene	17.26	146	2293559	8.620	ppbv	99
77) 1,2-Dichlorobenzene	17.94	146	2220340	8.487	ppbv	99
78) Hexachloro-1,3-Butadiene	23.50	225	1906207	8.563	ppbv	98
79) Naphthalene	22.35	128	4198683	11.229	ppbv	99
80) Naphthalene, 2-methyl-	25.07	142	1014083	7.453	ppbv	99
81) 1,2,4-Trichlorobenzene	22.08	180	2403894	10.010	ppbv	99

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



#1

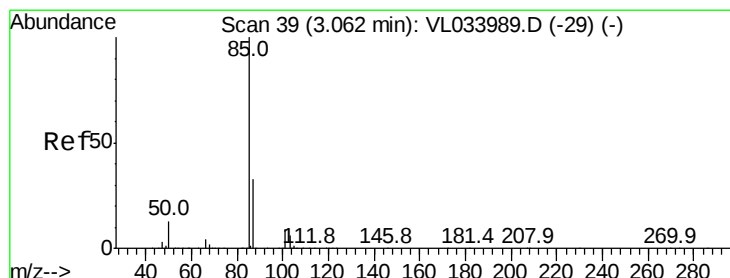
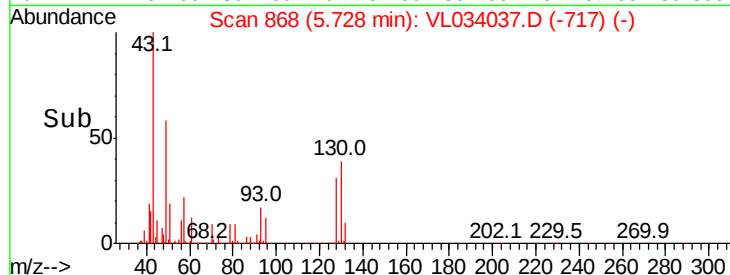
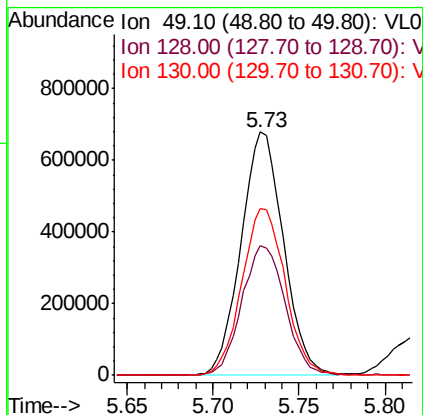
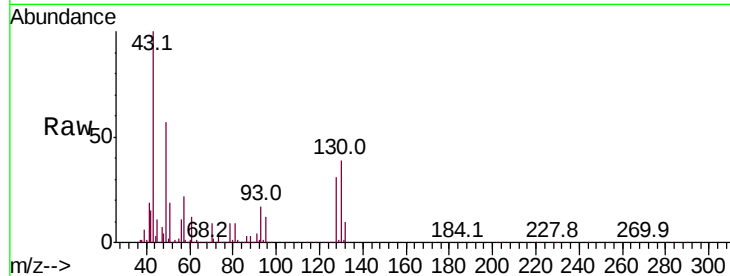
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.73 min Scan# 868
 Delta R.T. -0.01 min
 Lab File: VL034037.D
 Acq: 17 Jul 2019 17:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0717ABS01

Tot Ion: 49 Resp: 1164722
 Ion Ratio Lower Upper
 49 100
 128 54.7 27.9 83.6
 130 70.3 35.8 107.4

Manual Integrations
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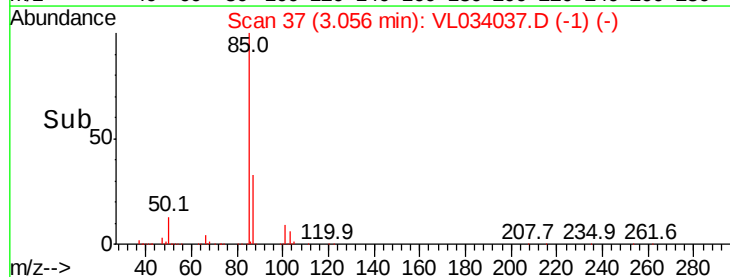
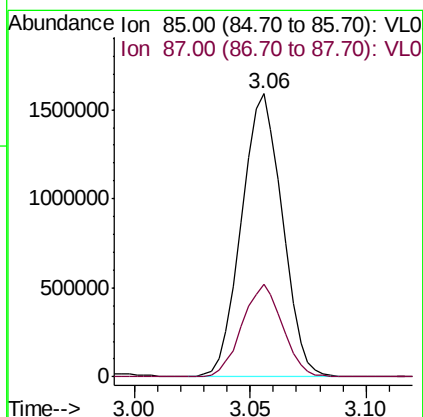
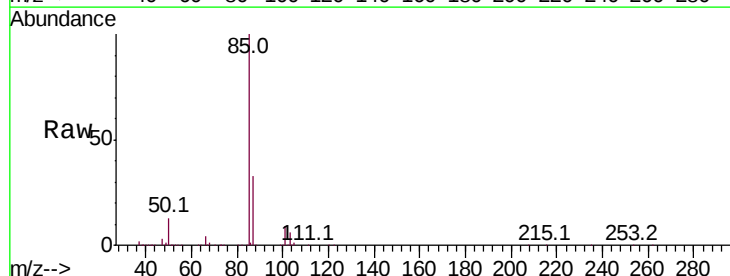
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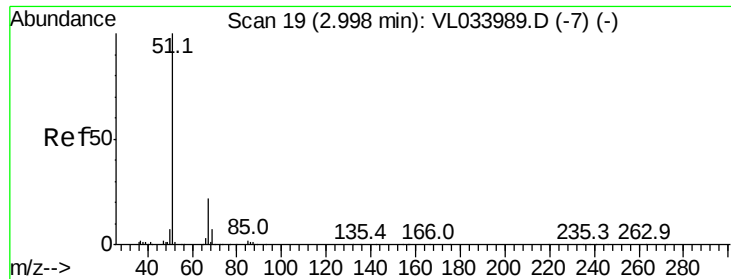


#2

Dichlorodifluoromethane
 Concen: 8.083 ppbv
 RT: 3.06 min Scan# 37
 Delta R.T. -0.01 min
 Lab File: VL034037.D
 Acq: 17 Jul 2019 17:54

Tgt Ion: 85 Resp: 1942878
 Ion Ratio Lower Upper
 85 100
 87 32.9 26.0 39.0





#3

Chlorodifluoromethane

Concen: 8.892 ppbv

RT: 2.99 min Scan# 18

Delta R.T. -0.00 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

ClientSampleId :

VL0717ABS01

Tot Ion: 51 Resp: 1278882

Ion Ratio Lower Upper

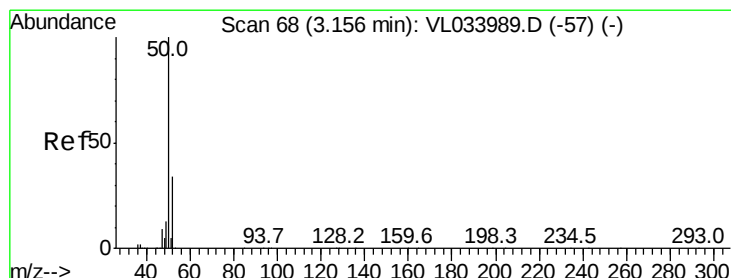
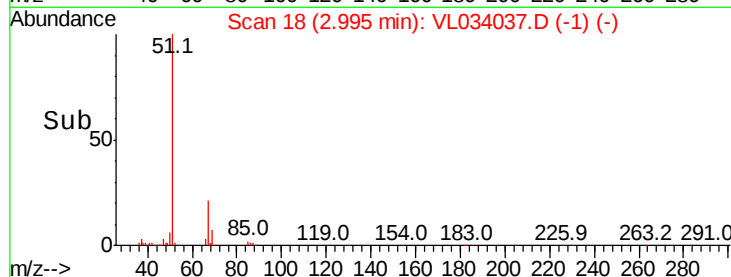
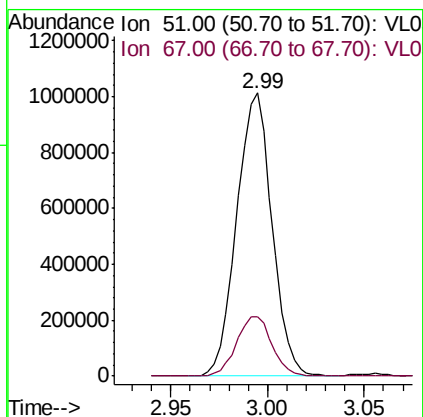
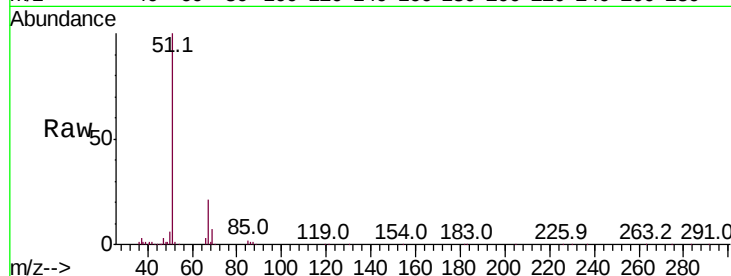
51 100

67 21.5 17.3 25.9

Manual Integrations
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#4

Chloromethane

Concen: 9.147 ppbv

RT: 3.15 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL034037.D

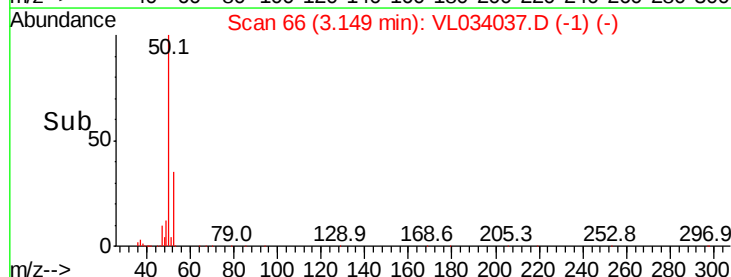
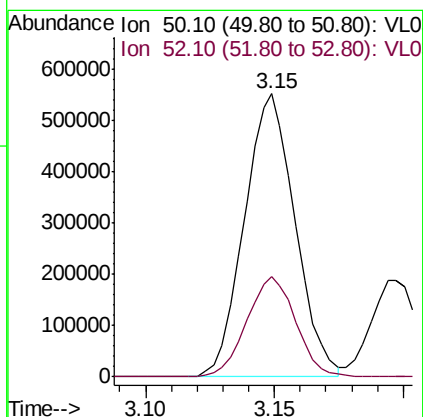
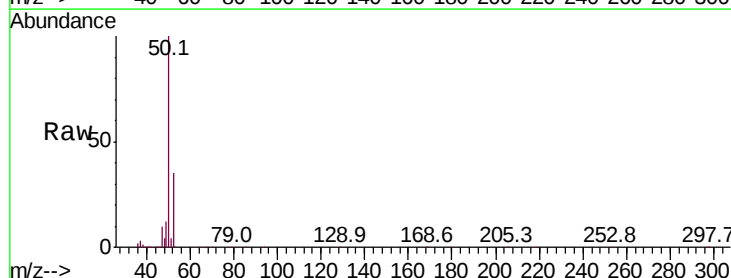
Acq: 17 Jul 2019 17:54

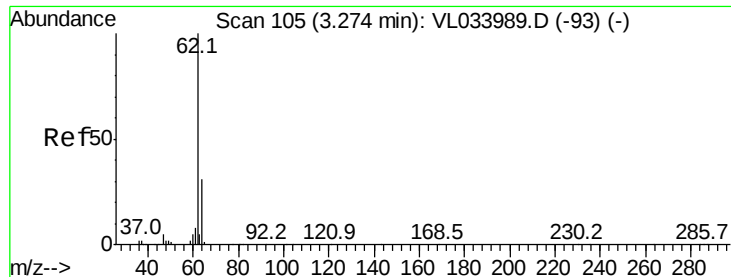
Tgt Ion: 50 Resp: 756502

Ion Ratio Lower Upper

50 100

52 35.3 27.4 41.0





#5

Vinyl Chloride

Concen: 8.698 ppbv

RT: 3.27 min Scan# 103

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

ClientSampleId :

VL0717ABS01

Tot Ion: 62 Resp: 808887

Ion Ratio Lower Upper

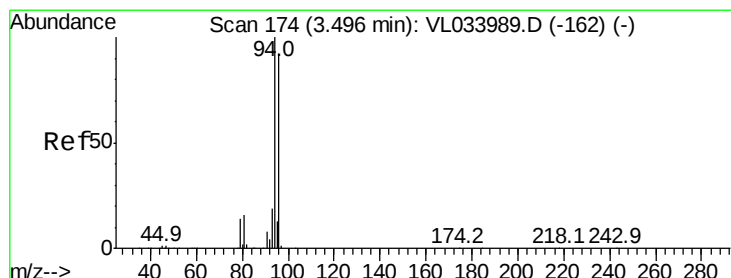
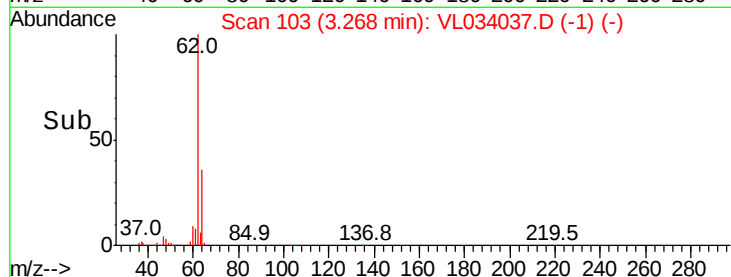
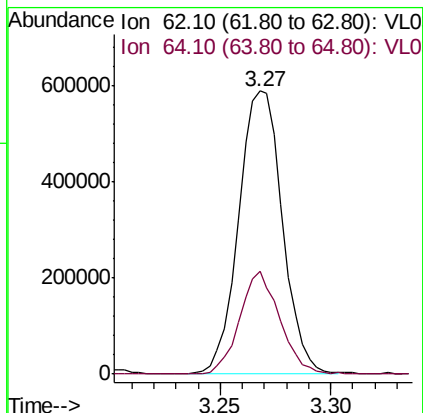
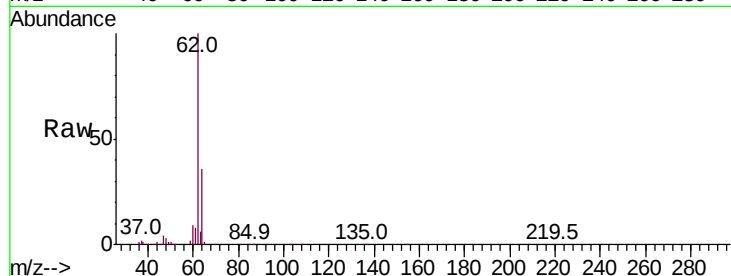
62 100

64 36.4 24.4 36.6

Manual Integrations
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#6

Bromomethane

Concen: 9.486 ppbv

RT: 3.49 min Scan# 172

Delta R.T. -0.01 min

Lab File: VL034037.D

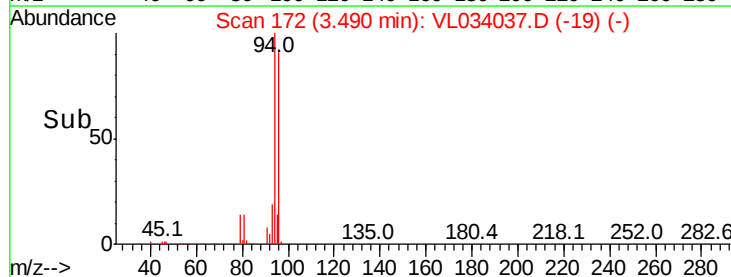
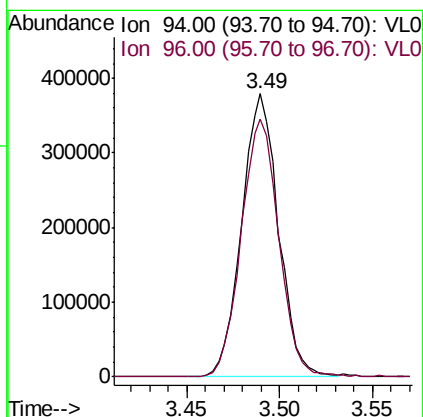
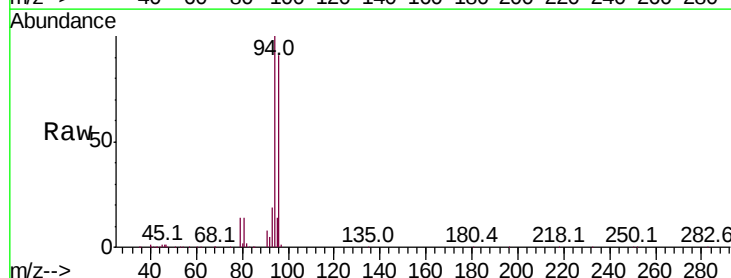
Acq: 17 Jul 2019 17:54

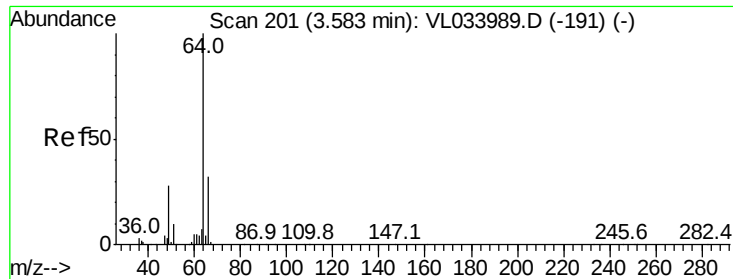
Tgt Ion: 94 Resp: 520187

Ion Ratio Lower Upper

94 100

96 90.8 73.8 110.8





#7

Chloroethane

Concen: 9.500 ppbv

RT: 3.57 min Scan# 198

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

ClientSampleId :

VL0717ABS01

Tot Ion: 64 Resp: 315742

Ion Ratio Lower Upper

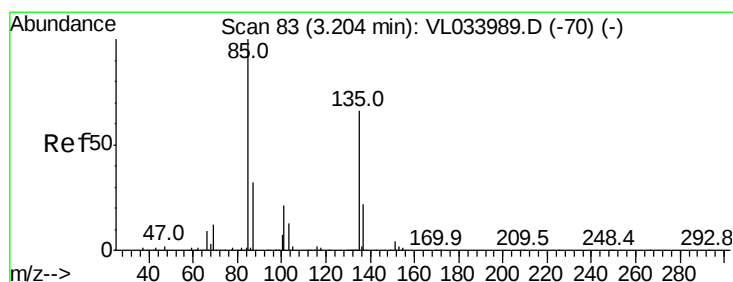
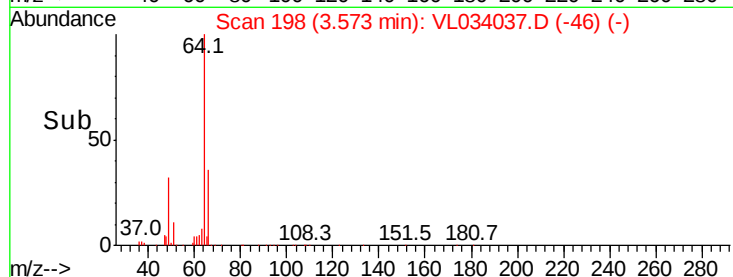
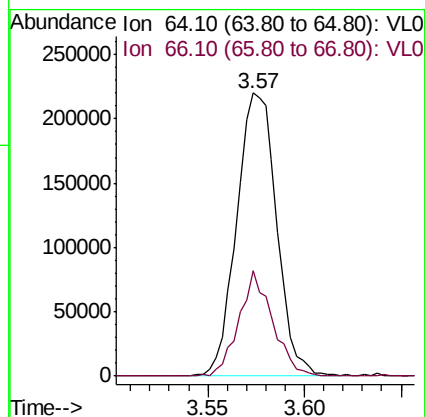
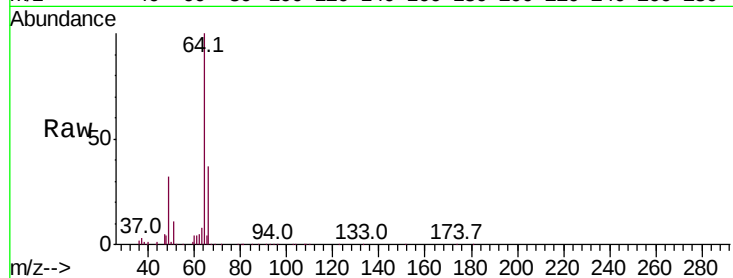
64 100

66 37.1 25.3 37.9

Manual Integrations
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#8

Dichlorotetrafluoroethane

Concen: 8.890 ppbv

RT: 3.20 min Scan# 81

Delta R.T. -0.01 min

Lab File: VL034037.D

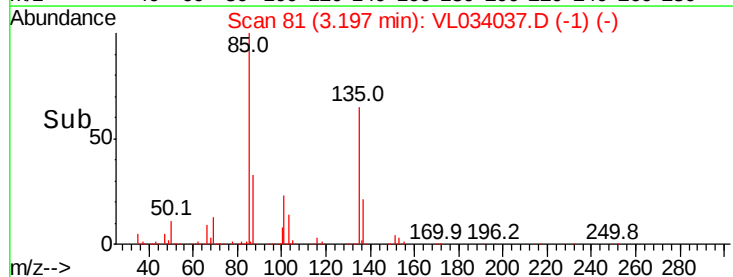
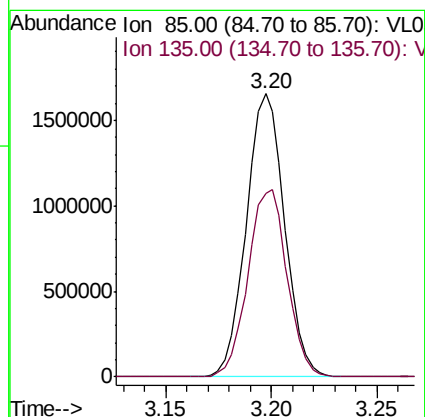
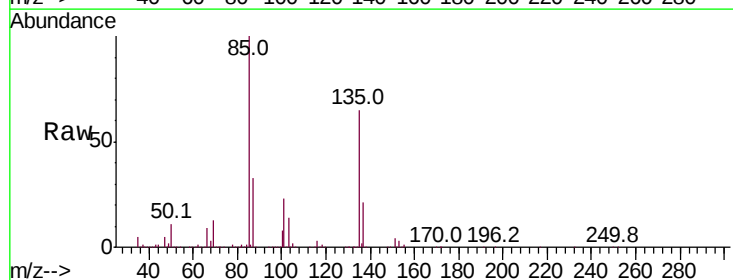
Acq: 17 Jul 2019 17:54

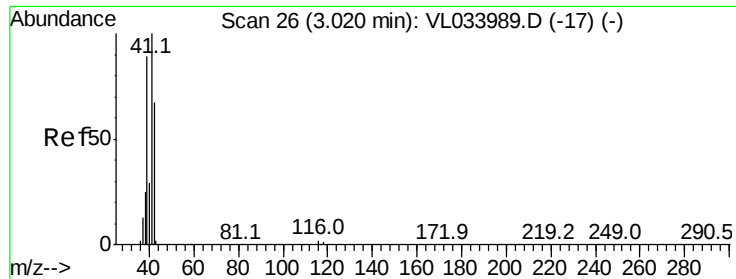
Tgt Ion: 85 Resp: 2083247

Ion Ratio Lower Upper

85 100

135 68.1 55.0 82.4





#9

Propene

Concen: 9.545 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

ClientSampleId :

VL0717ABS01

Tot Ion: 41 Resp: 505007

Ion Ratio Lower Upper

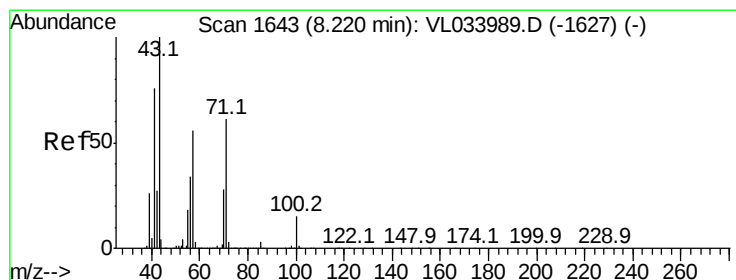
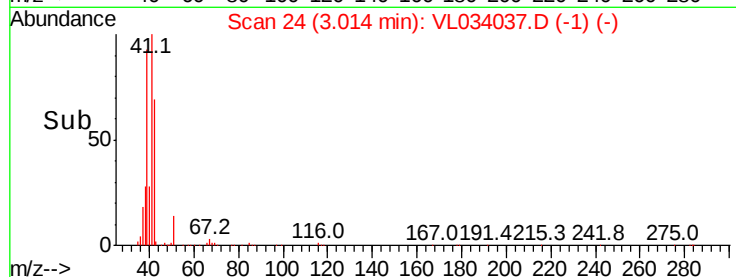
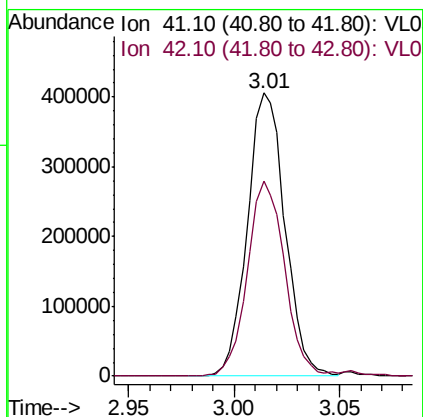
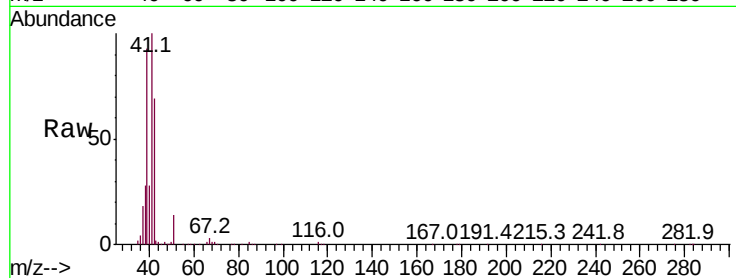
41 100

42 69.7 57.1 85.7

Manual Integrations
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#10

Heptane

Concen: 10.535 ppbv

RT: 8.21 min Scan# 1639

Delta R.T. -0.01 min

Lab File: VL034037.D

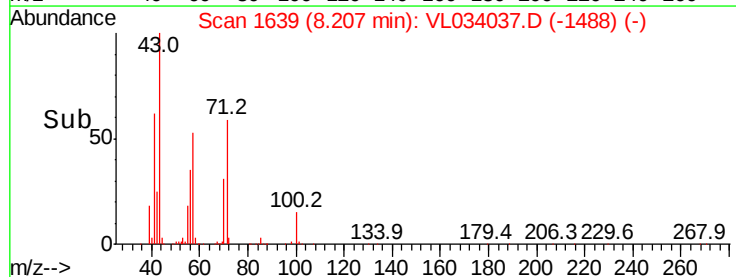
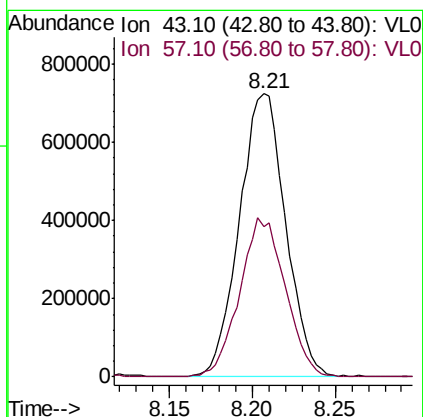
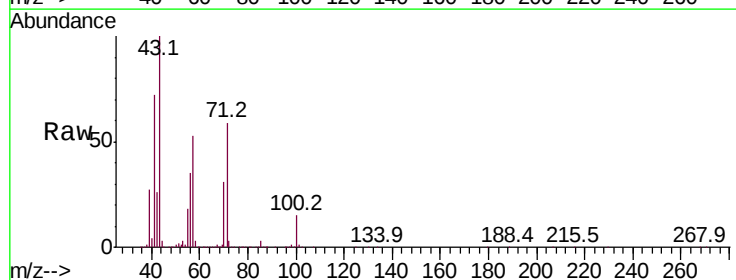
Acq: 17 Jul 2019 17:54

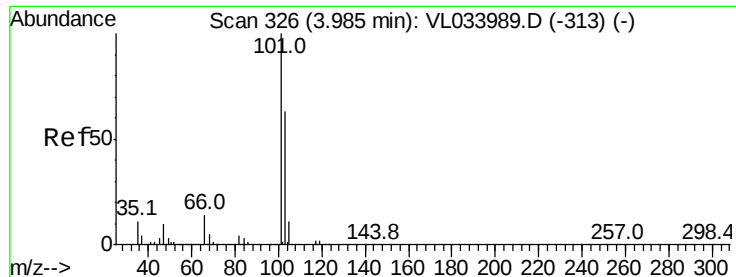
Tgt Ion: 43 Resp: 1395722

Ion Ratio Lower Upper

43 100

57 55.9 44.6 66.8





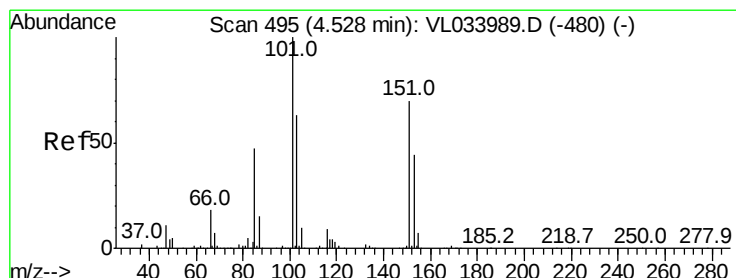
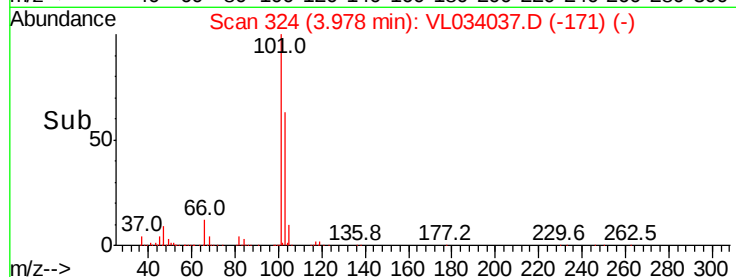
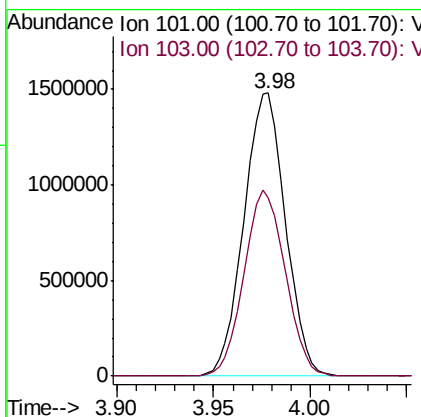
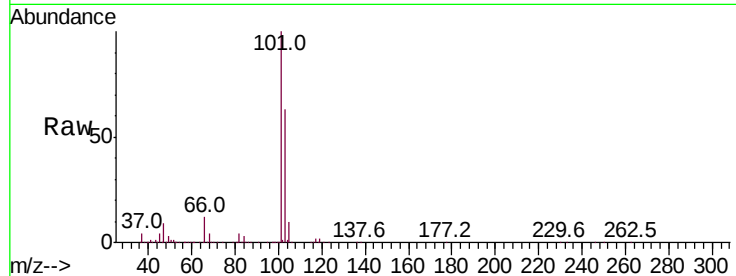
#11
 Trichlorofluoromethane
 Concen: 8.215 ppbv
 RT: 3.98 min Scan# 324
 Delta R.T. -0.01 min
 Lab File: VL034037.D
 Acq: 17 Jul 2019 17:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0717ABS01

Tot Ion:101 Resp: 2220311
 Ion Ratio Lower Upper
 101 100
 103 63.1 50.8 76.2

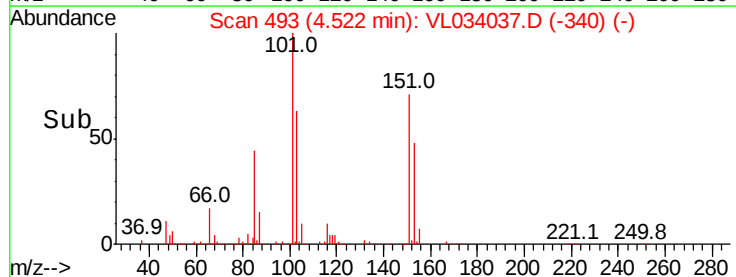
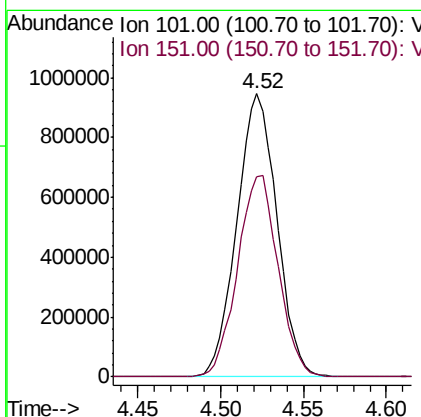
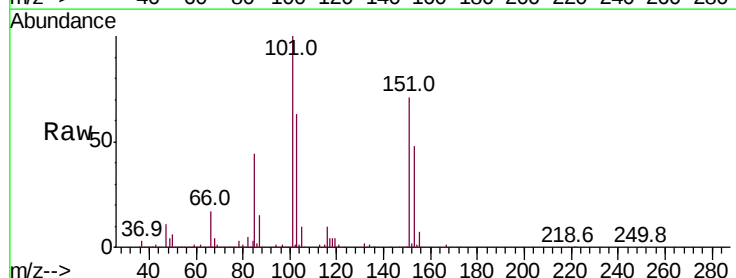
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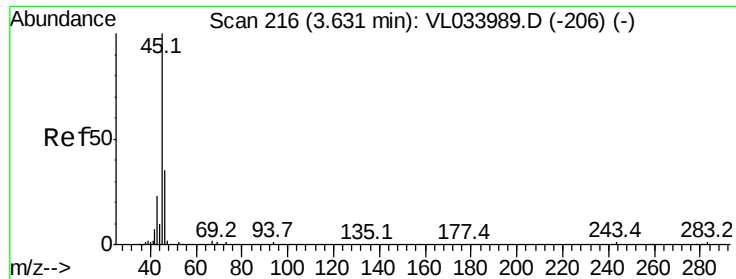
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.326 ppbv
 RT: 4.52 min Scan# 493
 Delta R.T. -0.01 min
 Lab File: VL034037.D
 Acq: 17 Jul 2019 17:54

Tgt Ion:101 Resp: 1592768
 Ion Ratio Lower Upper
 101 100
 151 72.0 59.0 88.4





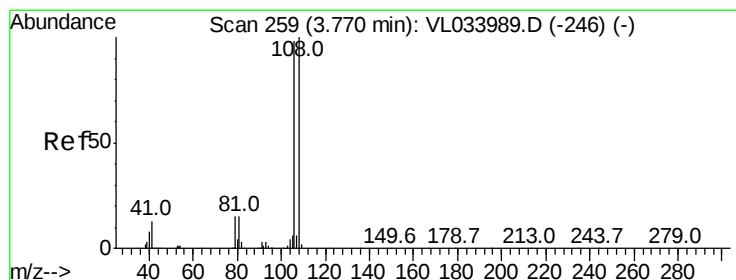
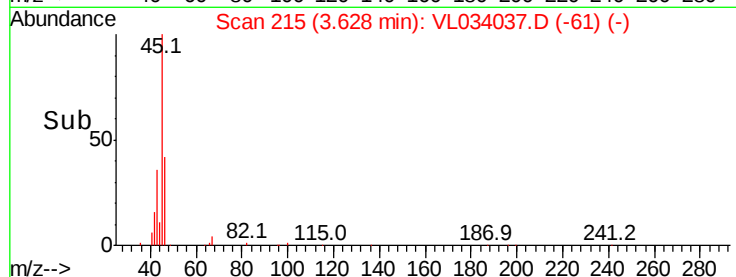
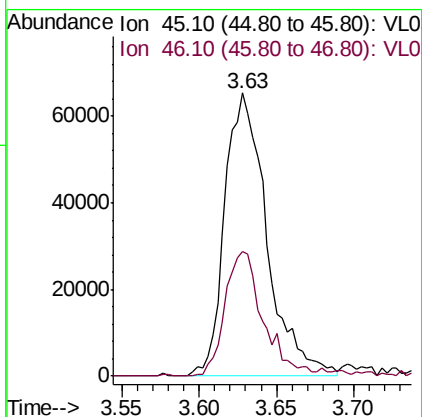
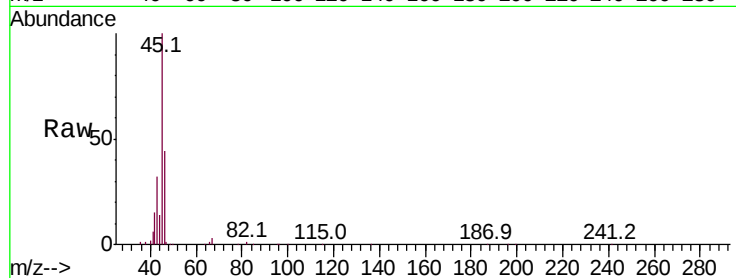
#13
Ethanol
Concen: 7.517 ppbv
RT: 3.63 min Scan# 215
Delta R.T. -0.00 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

Instrument :
MSVOA_L
ClientSampleId :
VL0717ABS01

Tot Ion	Ratio	Lower	Upper
45	100		
46	40.2	16.2	64.6

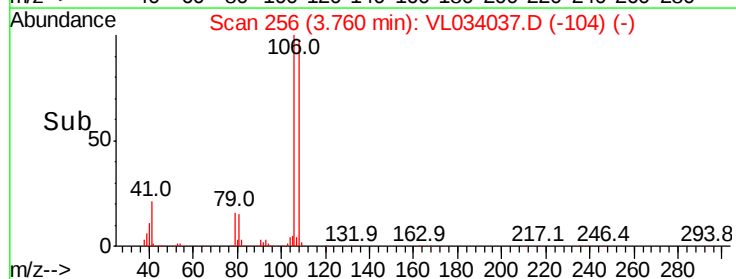
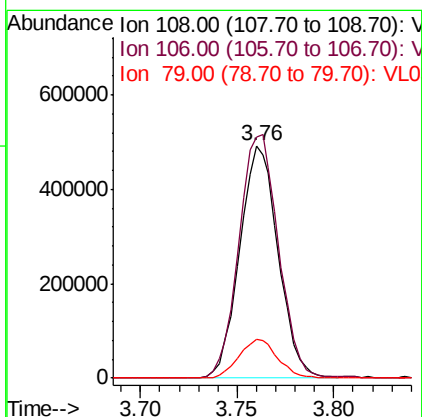
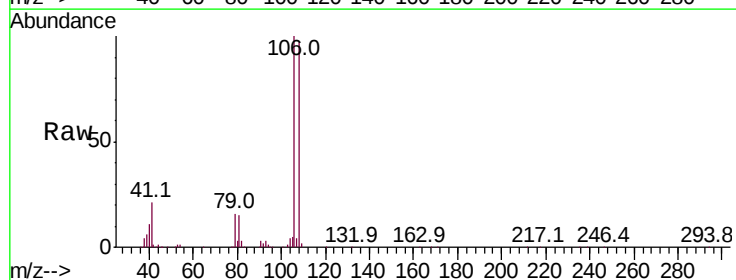
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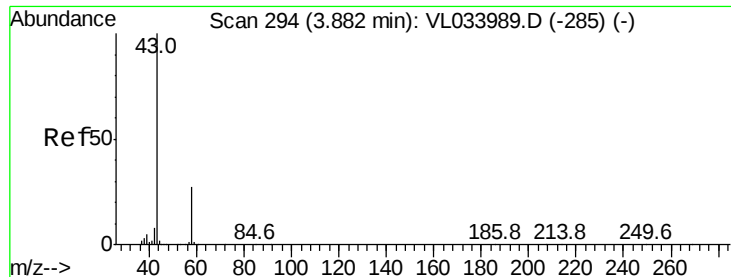
MMDadoda
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#14
Bromoethene
Concen: 9.546 ppbv
RT: 3.76 min Scan# 256
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

Tgt Ion	Ratio	Lower	Upper
108	100		
106	108.0	85.6	128.4
79	16.8	14.0	21.0





#15

Acetone

Concen: 7.817 ppbv

RT: 3.88 min Scan# 292

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

ClientSampleId :

VL0717ABS01

Tot Ion: 43 Resp: 1530745

Ion Ratio Lower Upper

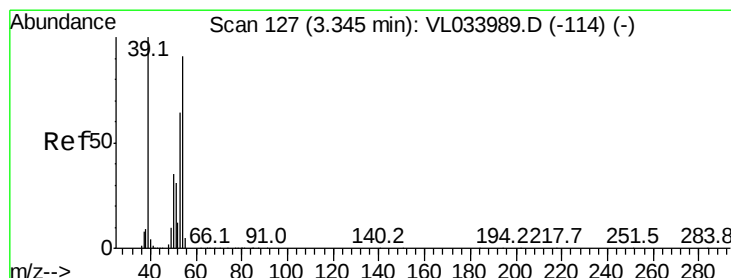
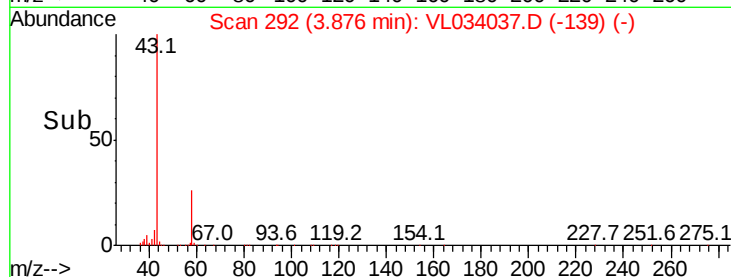
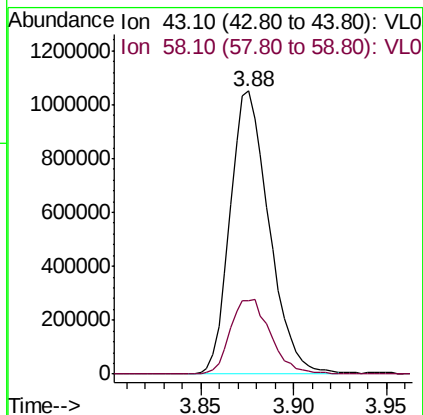
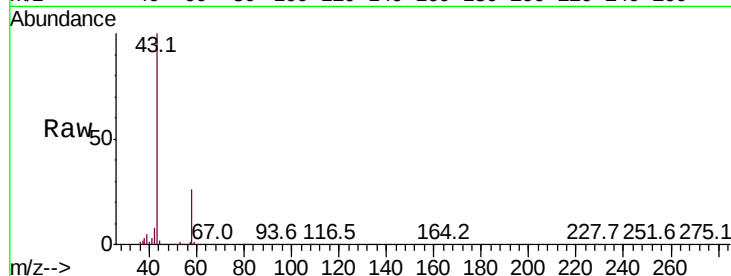
43 100

58 27.7 21.4 32.0

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#16

1,3-Butadiene

Concen: 10.136 ppbv

RT: 3.34 min Scan# 125

Delta R.T. -0.01 min

Lab File: VL034037.D

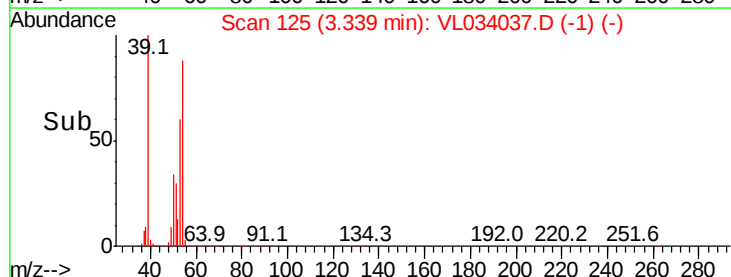
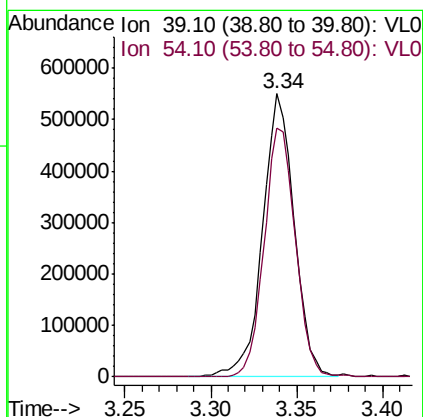
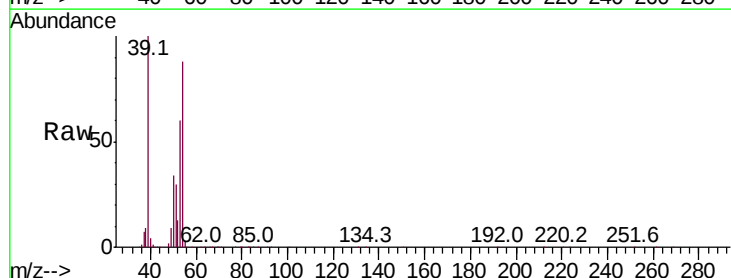
Acq: 17 Jul 2019 17:54

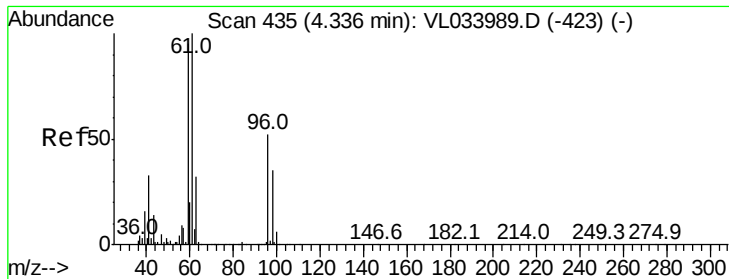
Tgt Ion: 39 Resp: 700861

Ion Ratio Lower Upper

39 100

54 87.1 71.4 107.2





#17

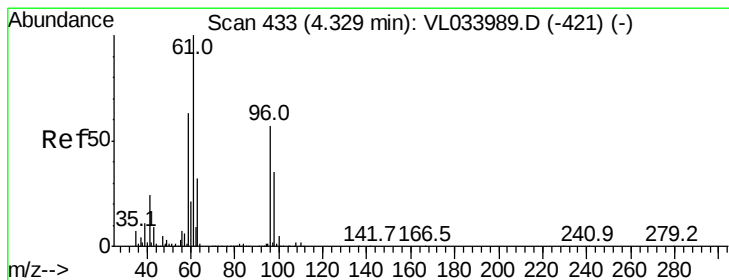
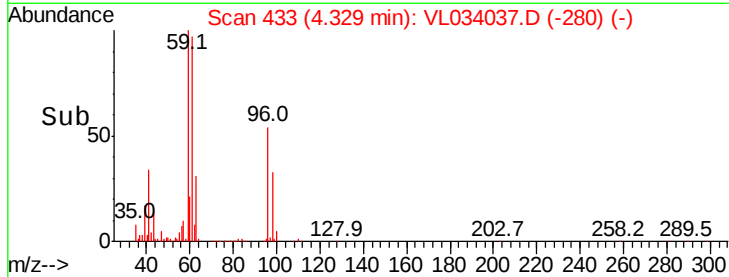
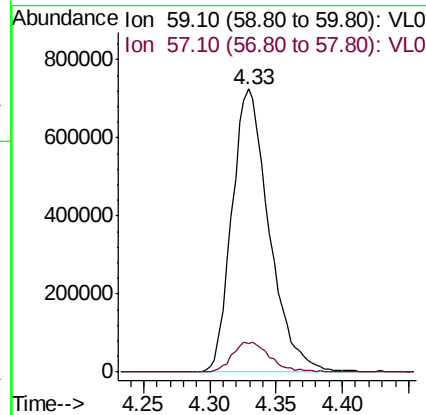
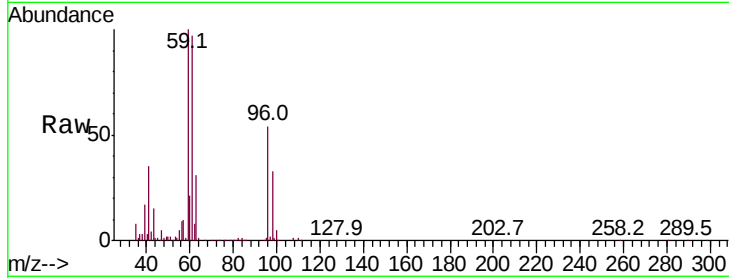
tert-Butyl alcohol
Concen: 9.043 ppbv
RT: 4.33 min Scan# 433
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

Instrument :
MSVOA_L
ClientSampleId :
VL0717ABS01

Tot Ion: 59 Resp: 1411818
Ion Ratio Lower Upper
59 100
57 10.9 8.2 12.2

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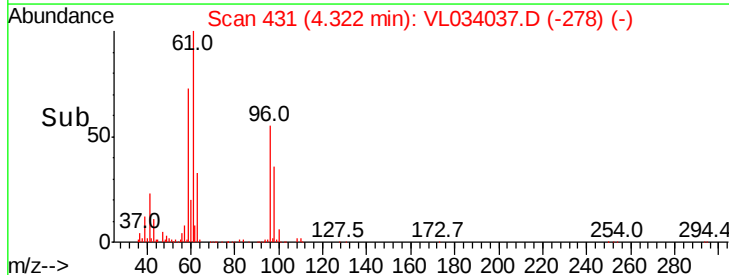
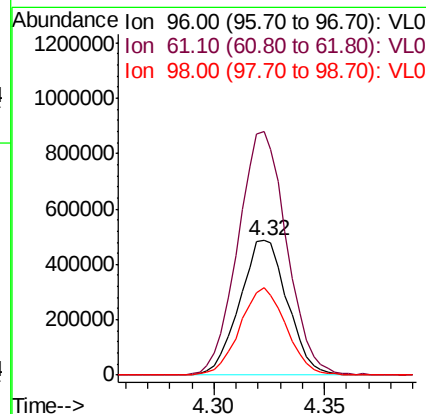
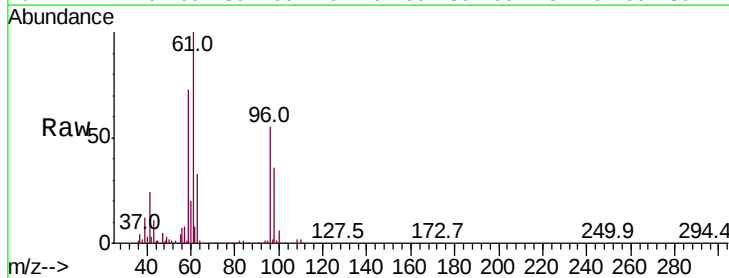
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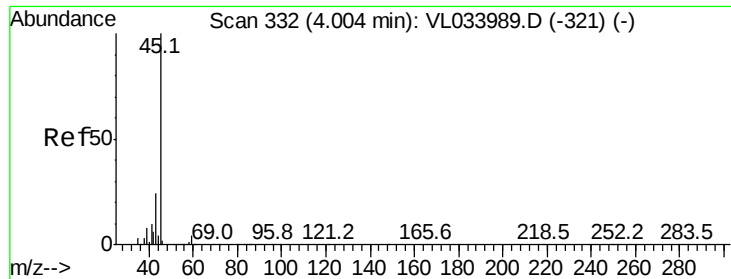


#18

1,1-Dichloroethene
Concen: 8.507 ppbv
RT: 4.32 min Scan# 431
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

Tgt Ion: 96 Resp: 724807
Ion Ratio Lower Upper
96 100
61 181.1 139.4 209.0
98 65.0 49.4 74.0





#19

Isopropyl Alcohol

Concen: 8.207 ppbv

RT: 4.00 min Scan# 330

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

ClientSampleId :

VL0717ABS01

Tot Ion: 45 Resp: 1078801

Ion Ratio Lower Upper

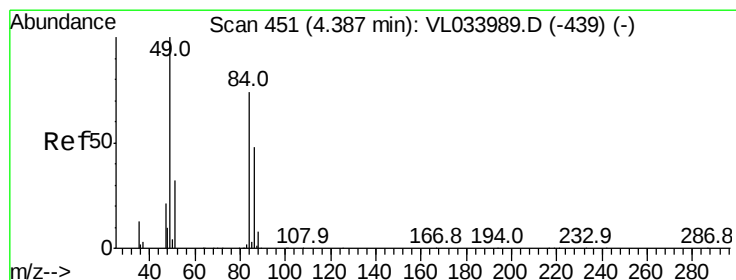
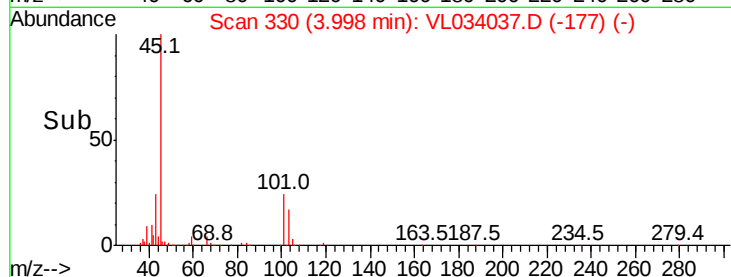
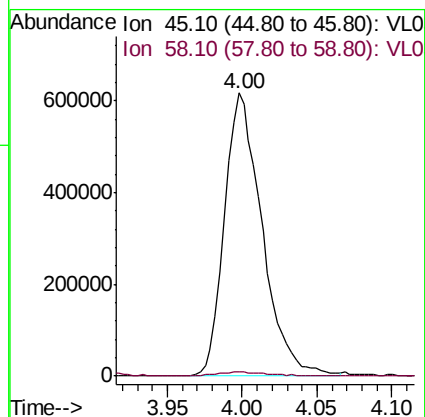
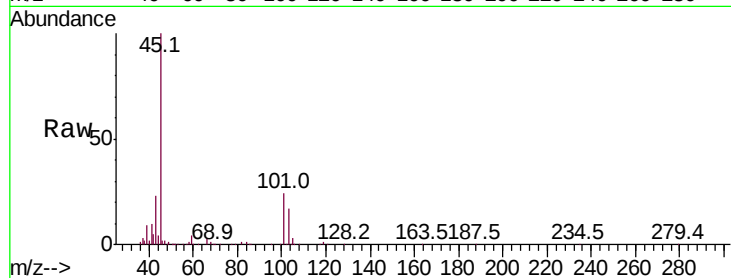
45 100

58 2.0 1.7 2.5

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#20

Methylene Chloride

Concen: 7.294 ppbv

RT: 4.38 min Scan# 448

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Tgt Ion: 84 Resp: 622993

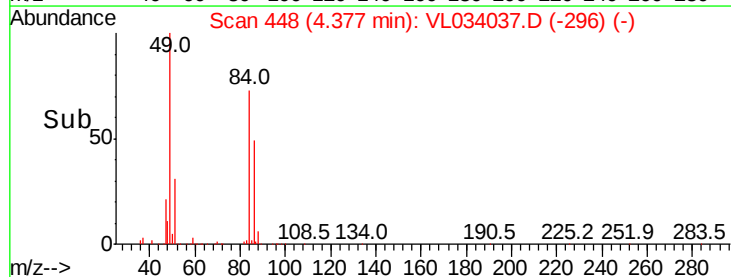
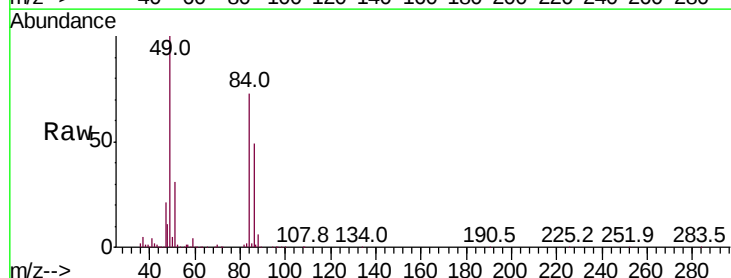
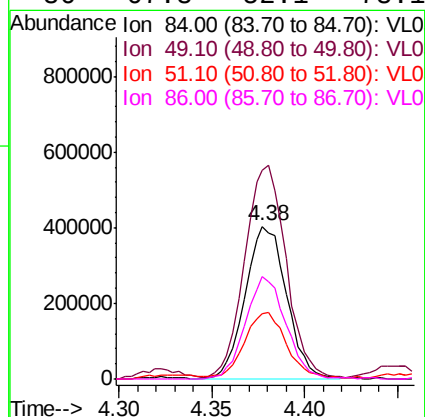
Ion Ratio Lower Upper

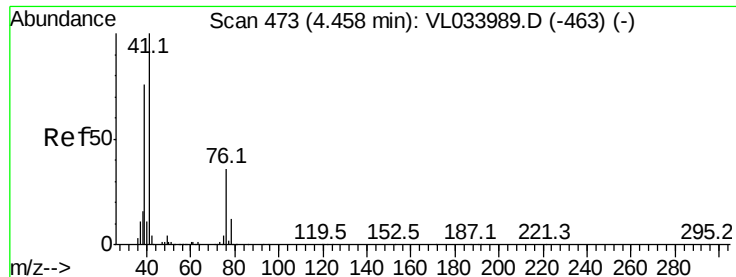
84 100

49 136.5 107.6 161.4

51 42.5 35.0 52.6

86 67.8 52.1 78.1





#21

Allvl Chloride

Concen: 9.002 ppbv

RT: 4.45 min Scan# 470

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

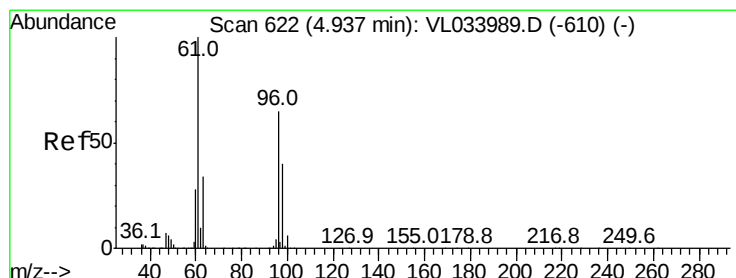
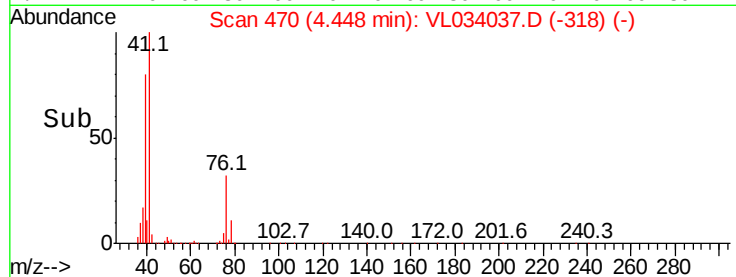
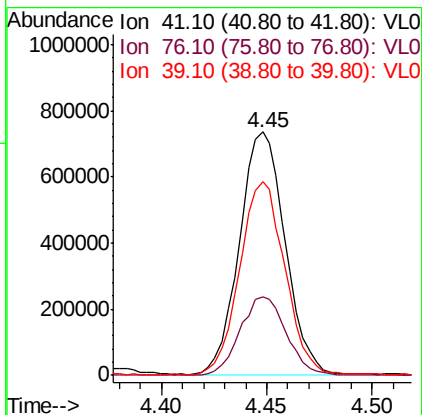
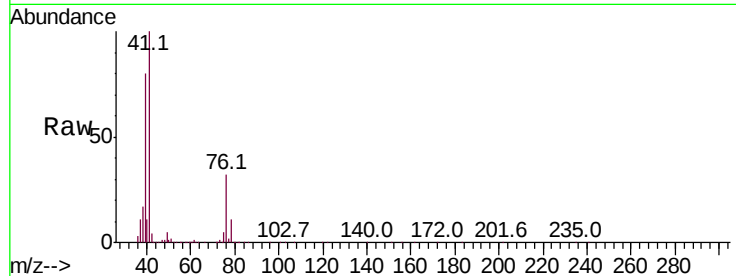
ClientSampleId :

VL0717ABS01

Tot Ion:	41	Resp:	1099184
Ion	Ratio	Lower	Upper
41	100		
76	33.0	26.8	40.2
39	79.9	63.1	94.7

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#22

trans-1,2-Dichloroethene

Concen: 9.233 ppbv

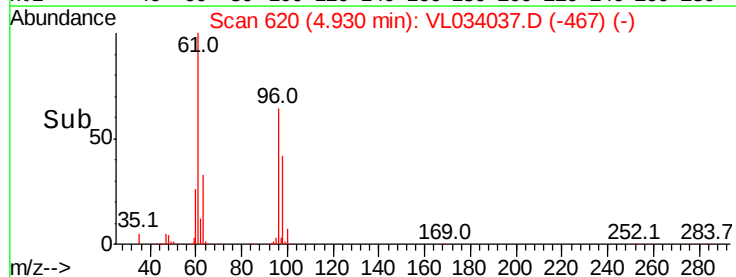
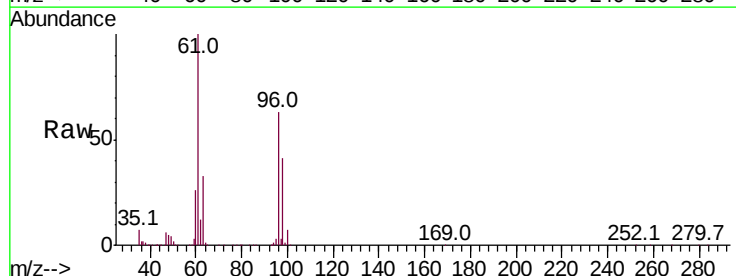
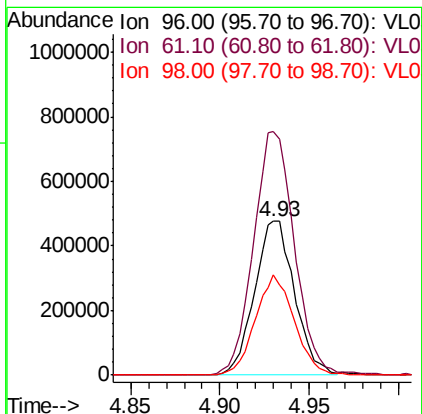
RT: 4.93 min Scan# 620

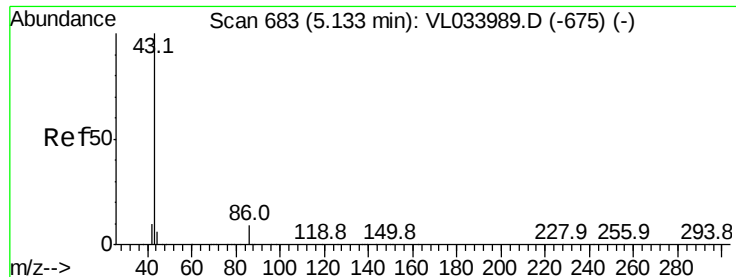
Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Tgt Ion:	96	Resp:	749600
Ion	Ratio	Lower	Upper
96	100		
61	158.5	122.9	184.3
98	65.2	49.6	74.4





#23

Vinyl Acetate

Concen: 10.611 ppbv

RT: 5.12 min Scan# 680

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

ClientSampleId :

VL0717ABS01

Tot Ion: 43 Resp: 2074049

Ion Ratio Lower Upper

43 100

86 8.9 6.6 9.8

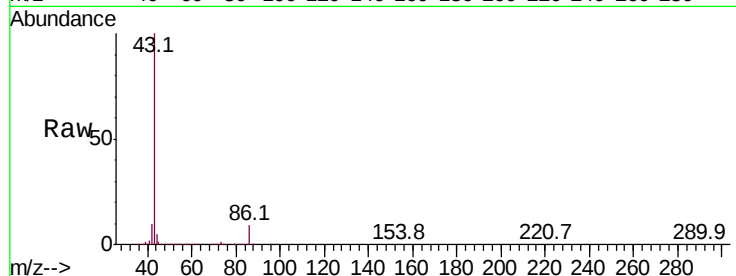
42 9.7 8.3 12.5

44 4.7 4.3 6.5

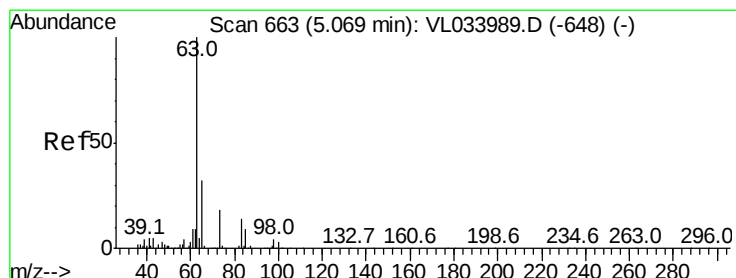
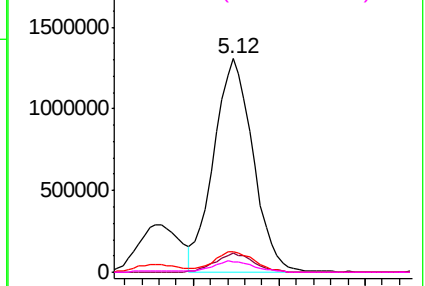
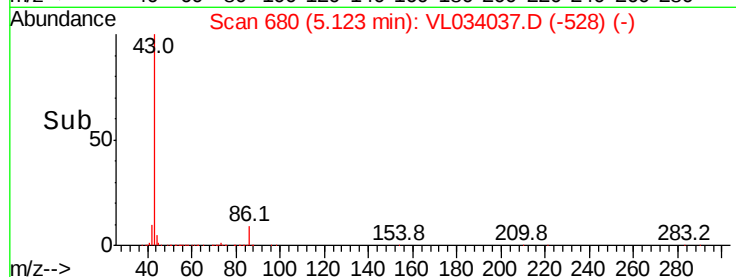
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Abundance Ion 43.10 (42.80 to 43.80): VL0
2000000 Ion 86.10 (85.80 to 86.80): VL0
1500000 Ion 42.10 (41.80 to 42.80): VL0
1000000 Ion 44.10 (43.80 to 44.80): VL0
500000
0



#24

1,1-Dichloroethane

Concen: 9.450 ppbv

RT: 5.06 min Scan# 660

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

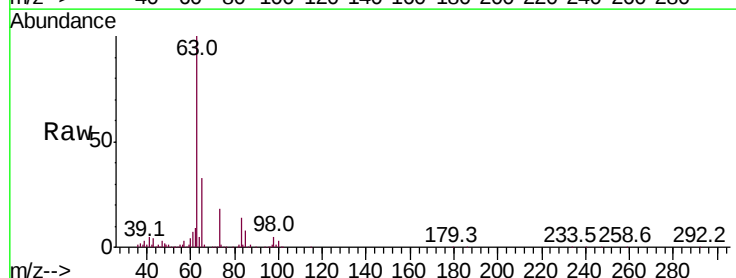
Tgt Ion: 63 Resp: 1636941

Ion Ratio Lower Upper

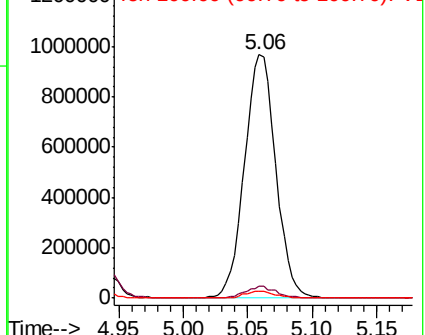
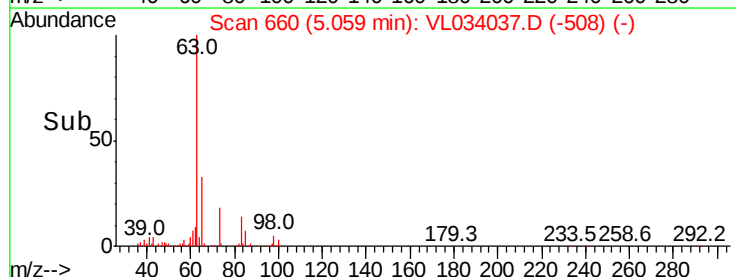
63 100

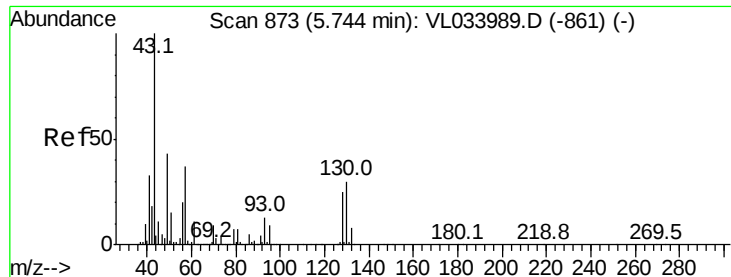
98 4.7 2.2 6.6

100 3.0 1.4 4.2



Abundance Ion 63.10 (62.80 to 63.80): VL0
1200000 Ion 98.00 (97.70 to 98.70): VL0
1000000 Ion 100.00 (99.70 to 100.70): VL0
800000
600000
400000
200000
0





#25

Ethyl Acetate

Concen: 9.870 ppbv

RT: 5.73 min Scan# 870

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

ClientSampleId :

VL0717ABS01

Tot Ion: 43 Resp: 2643521

Ion Ratio Lower Upper

43 100

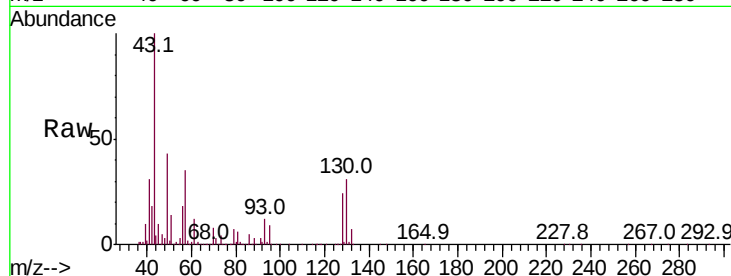
45 10.0 8.1 12.1

61 10.3 8.1 12.1

70 8.0 6.3 9.5

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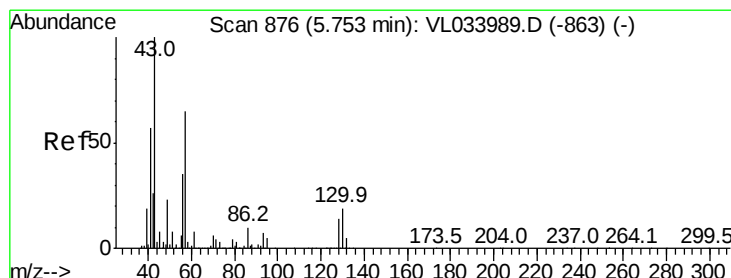
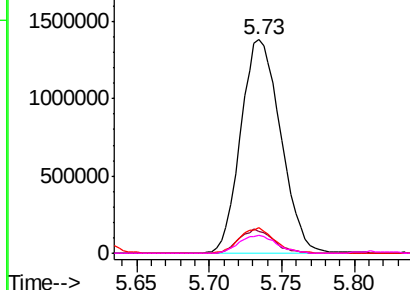
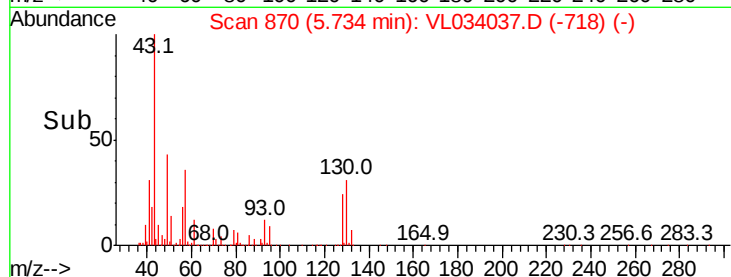
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.786 ppbv

RT: 5.74 min Scan# 872

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Tgt Ion: 57 Resp: 1199439

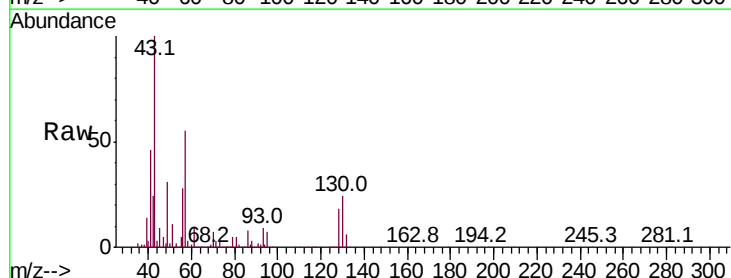
Ion Ratio Lower Upper

57 100

41 87.8 70.6 105.8

43 221.5 177.6 266.4

56 53.2 42.6 64.0



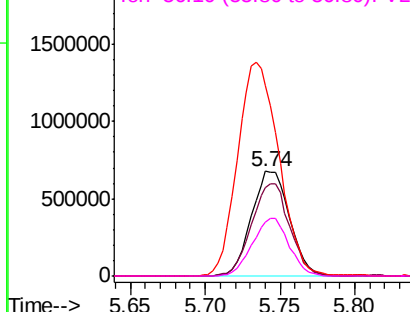
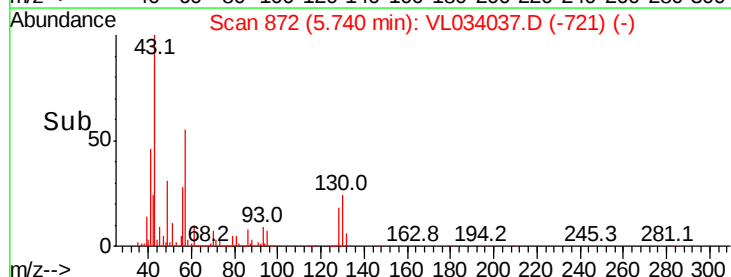
Abundance

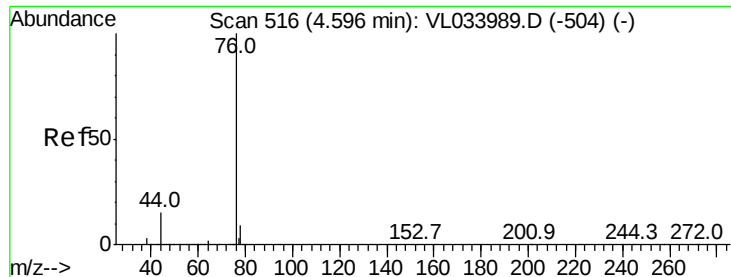
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 9.280 ppbv

RT: 4.59 min Scan# 514

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

ClientSampleId :

VL0717ABS01

Tot Ion: 76 Resp: 1933632

Ion Ratio Lower Upper

76 100

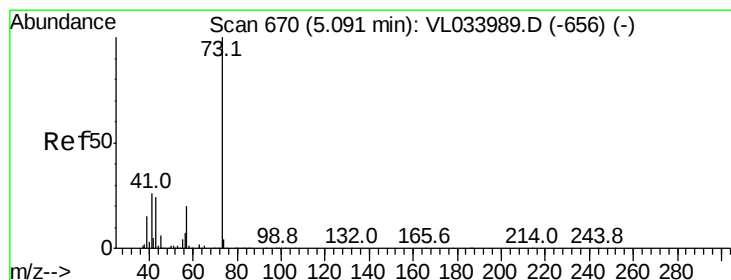
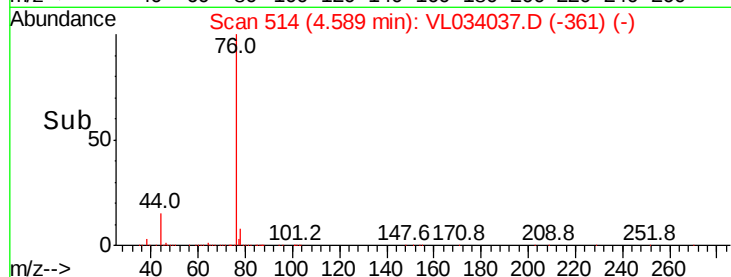
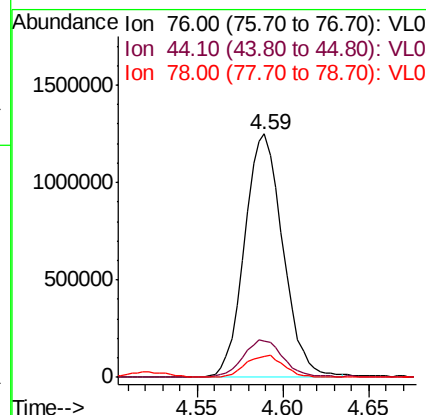
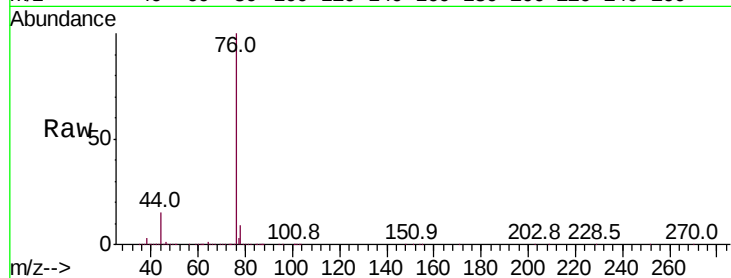
44 15.5 12.6 18.8

78 9.0 7.2 10.8

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#28

Methyl tert-Butyl Ether

Concen: 10.297 ppbv

RT: 5.08 min Scan# 666

Delta R.T. -0.01 min

Lab File: VL034037.D

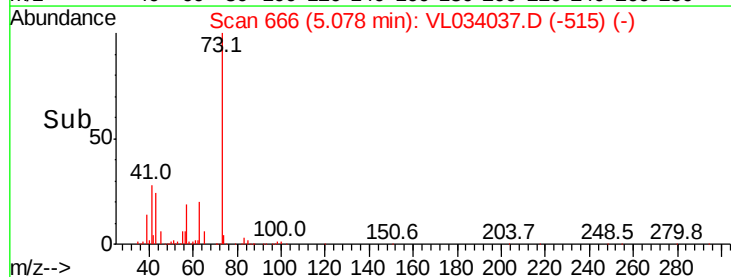
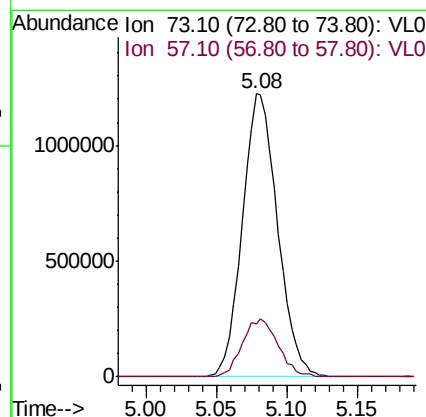
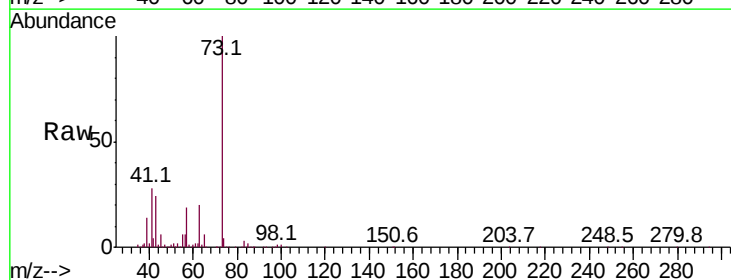
Acq: 17 Jul 2019 17:54

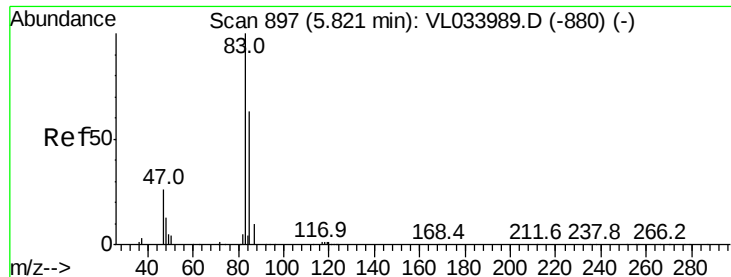
Tgt Ion: 73 Resp: 2137357

Ion Ratio Lower Upper

73 100

57 21.1 16.9 25.3





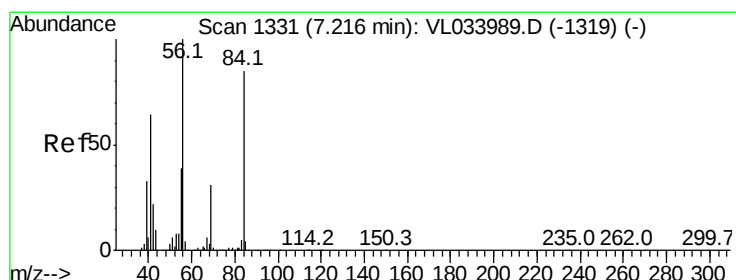
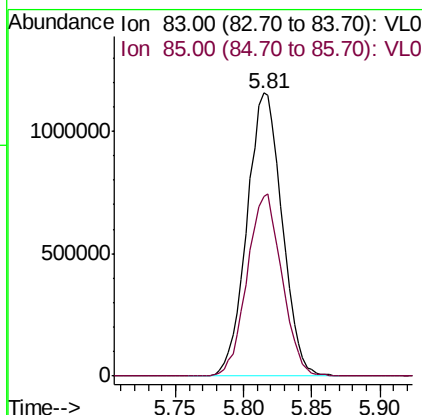
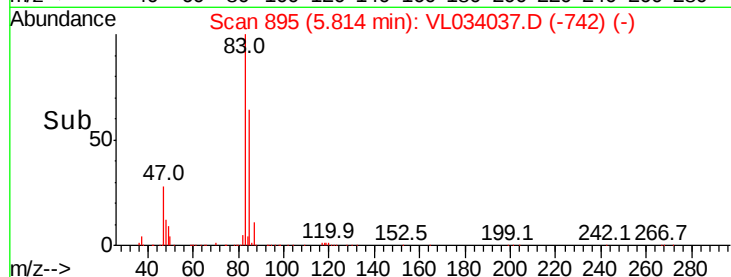
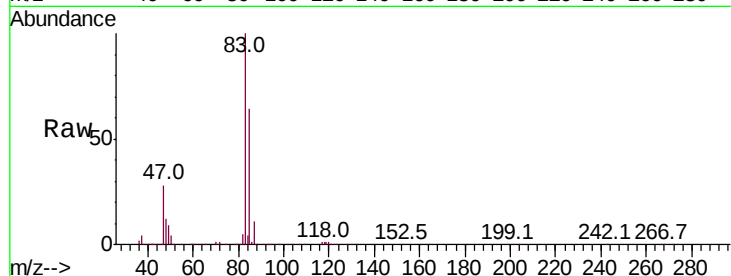
#29
Chloroform
Concen: 8.984 ppbv
RT: 5.81 min Scan# 895
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

Instrument :
MSVOA_L
ClientSampleId :
VL0717ABS01

Tot Ion: 83 Resp: 2069286
Ion Ratio Lower Upper
83 100
85 63.4 50.6 75.8

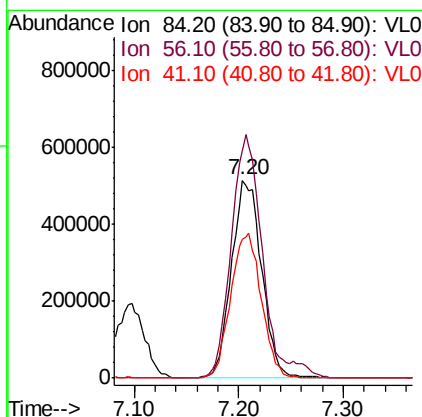
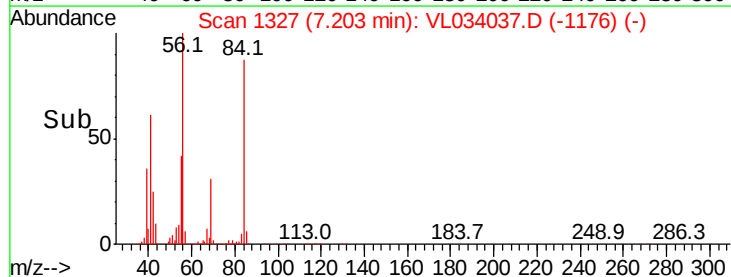
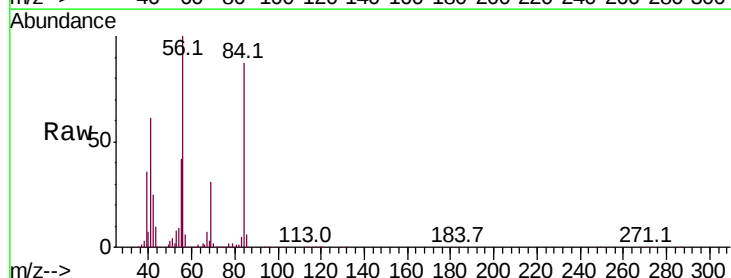
Manual Integrations
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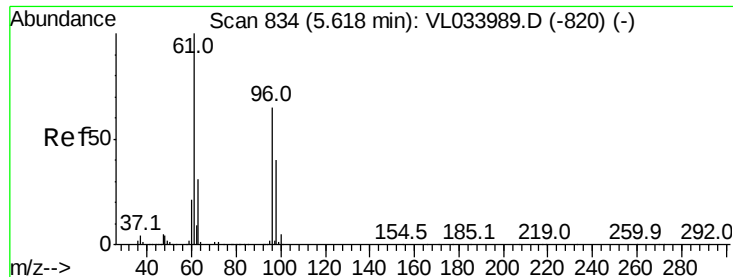
MMDadoda
7/19/2019 1:37:12 AM



#30
Cyclohexane
Concen: 10.915 ppbv m
RT: 7.20 min Scan# 1327
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

Tgt Ion: 84 Resp: 1033186
Ion Ratio Lower Upper
84 100
56 0.0 103.7 155.5#
41 0.0 62.6 94.0#





#31

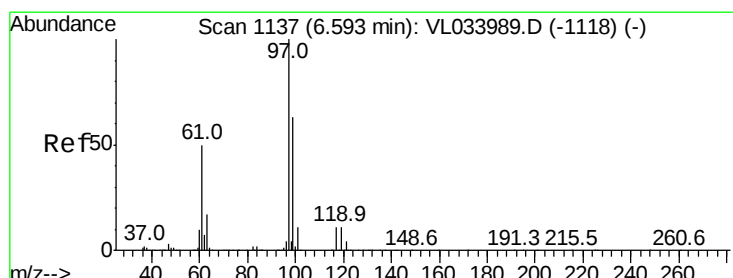
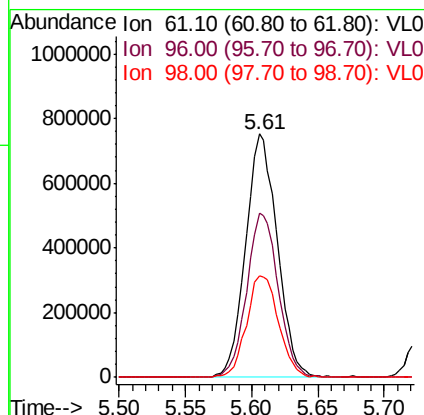
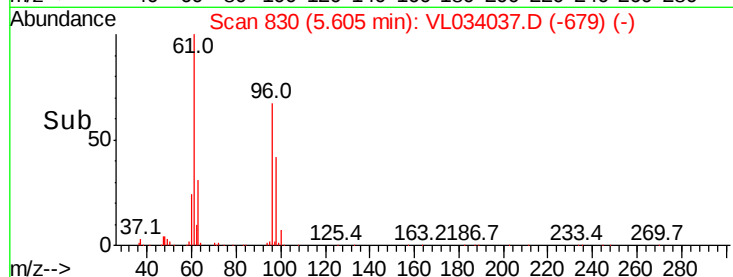
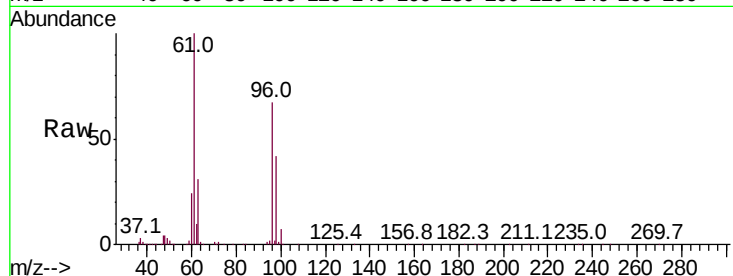
cis-1,2-Dichloroethene
Concen: 10.549 ppbv
RT: 5.61 min Scan# 830
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

Instrument :
MSVOA_L
ClientSampleId :
VL0717ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	67.3	51.8	77.6
98	41.6	32.1	48.1

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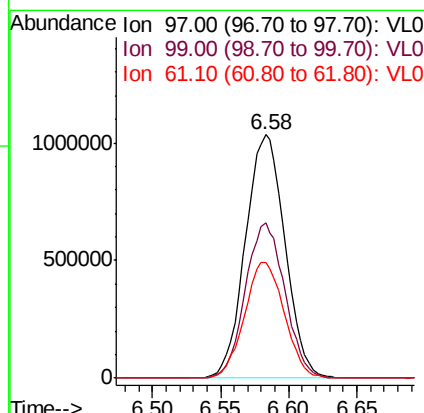
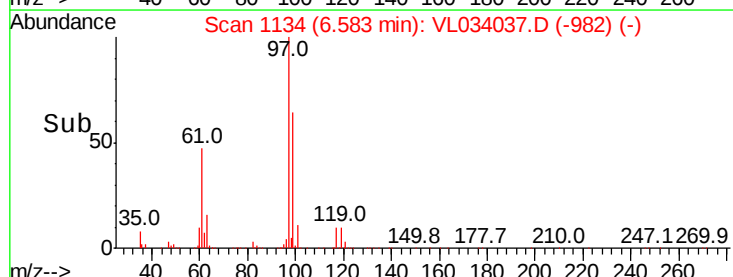
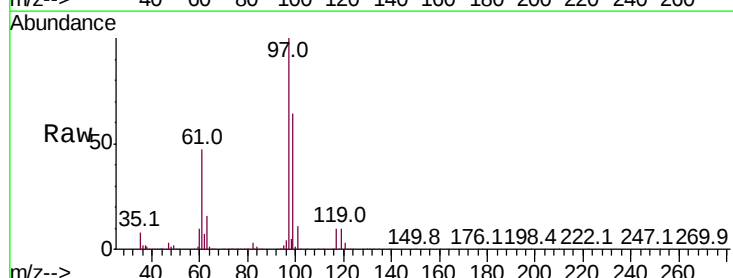
MMDadoda
7/19/2019 1:37:12 AM

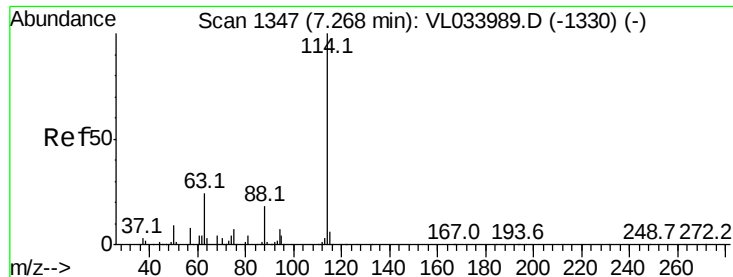


#32

1,1,1-Trichloroethane
Concen: 8.927 ppbv
RT: 6.58 min Scan# 1134
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.6	51.9	77.9
61	47.9	39.8	59.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.25 min Scan# 1343

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

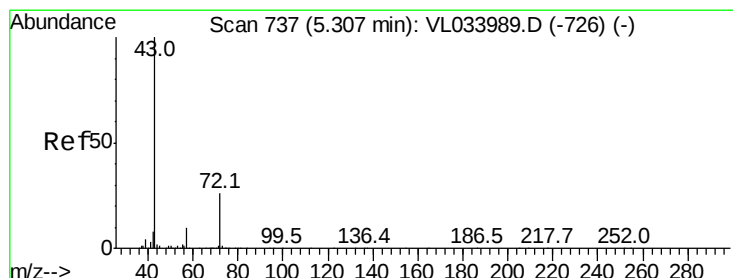
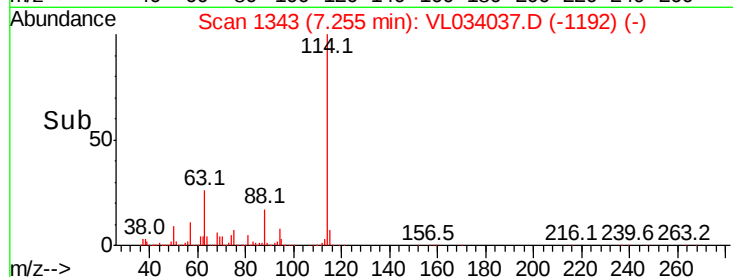
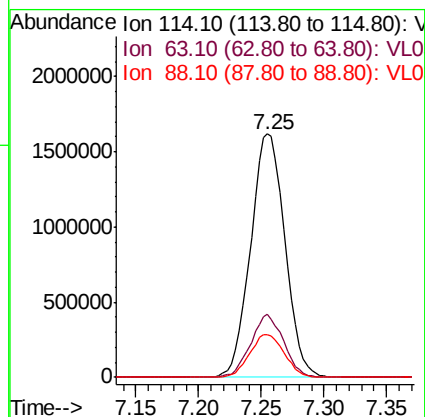
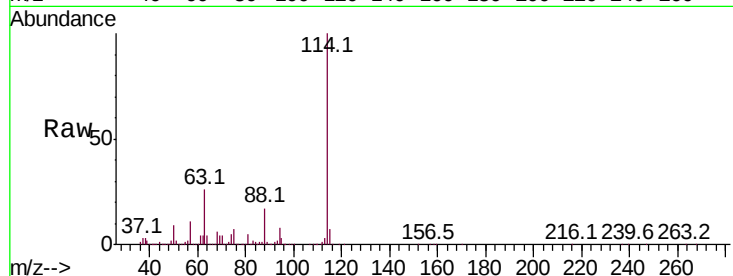
Instrument :
MSVOA_L

ClientSampleId :
VL0717ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.2	20.2	30.2
88	17.8	14.1	21.1

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#34

2-Butanone

Concen: 10.029 ppbv

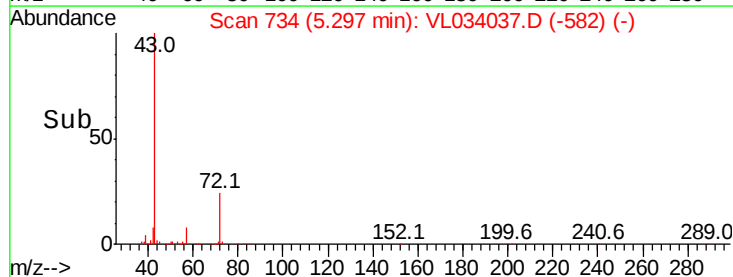
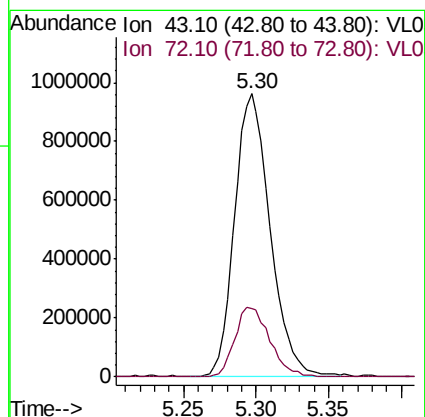
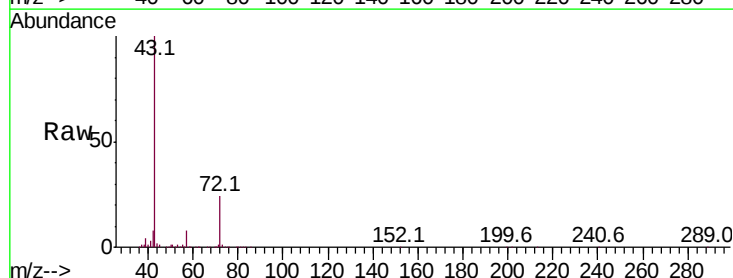
RT: 5.30 min Scan# 734

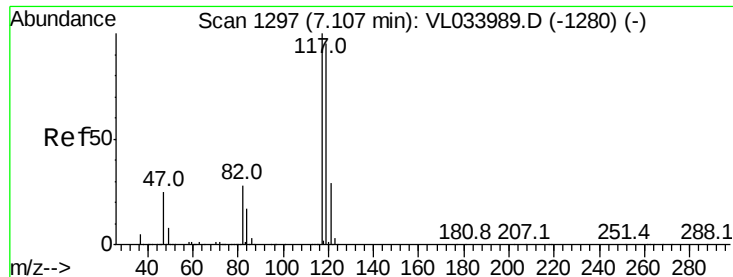
Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Tgt Ion	Ratio	Lower	Upper
43	100		
72	24.5	19.9	29.9





#35

Carbon Tetrachloride

Concen: 9.014 ppbv

RT: 7.10 min Scan# 1294

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

ClientSampleId :

VL0717ABS01

Tot Ion:117 Resp: 2198923

Ion Ratio Lower Upper

117 100

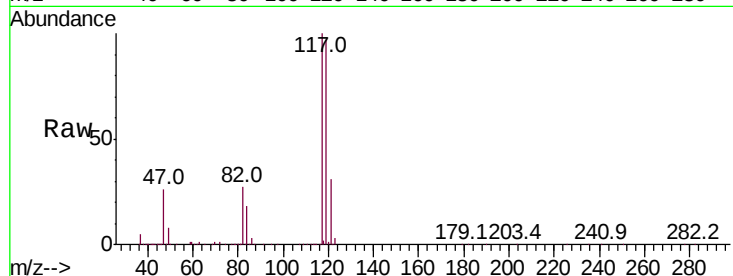
119 97.4 75.8 113.6

121 31.4 23.4 35.2

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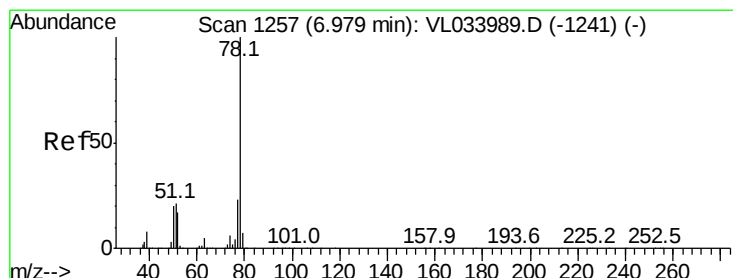
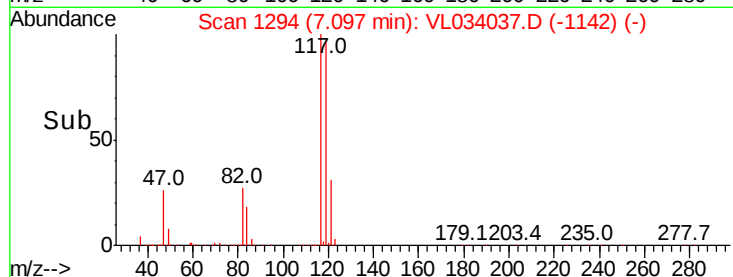
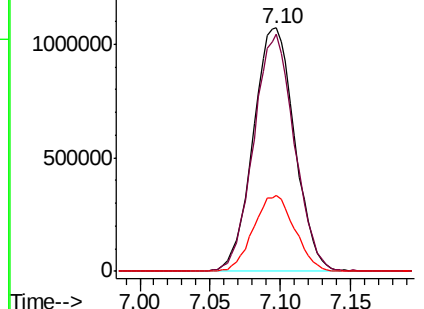
7/19/2019 1:37:12 AM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.314 ppbv

RT: 6.97 min Scan# 1254

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

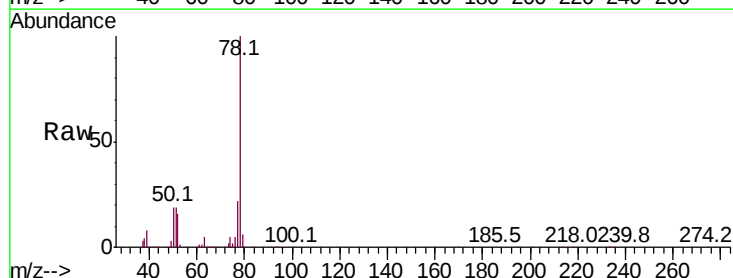
Tgt Ion: 78 Resp: 2486904

Ion Ratio Lower Upper

78 100

77 21.7 18.7 28.1

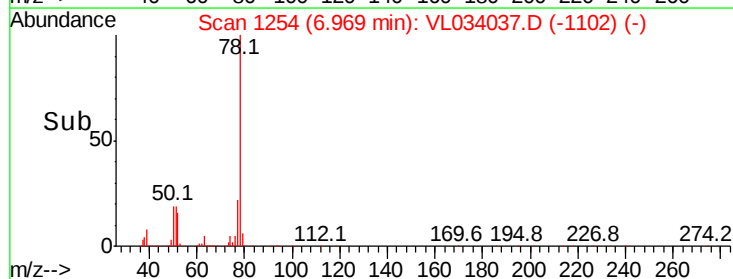
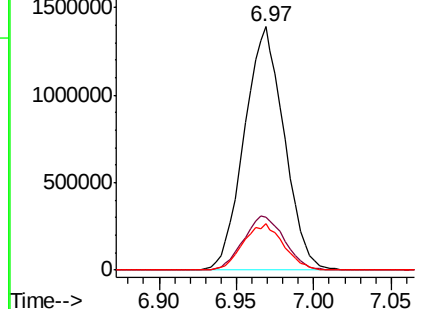
50 19.3 16.2 24.2

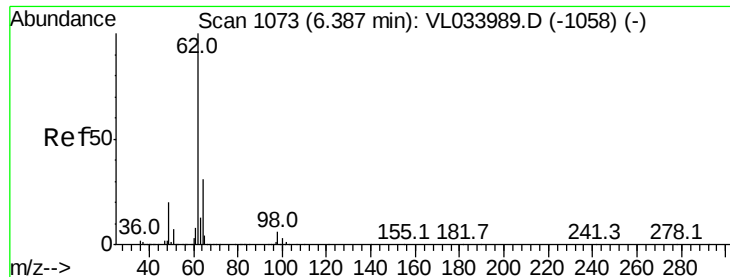


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





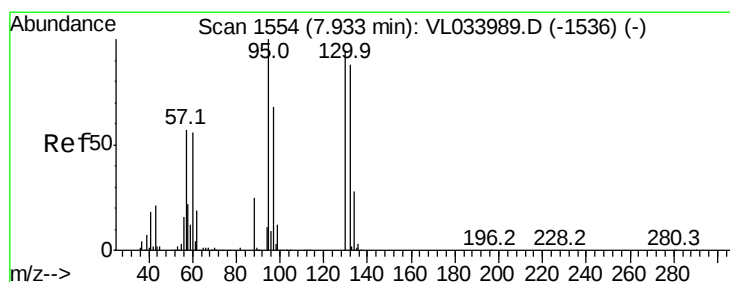
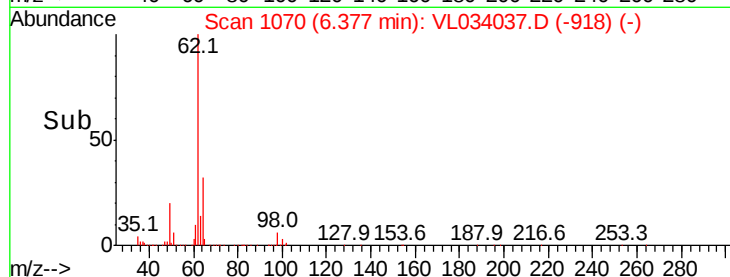
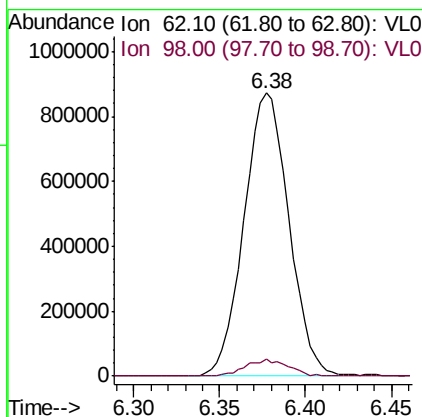
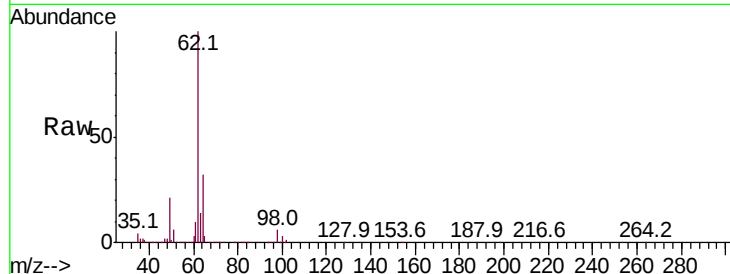
#37
 1,2-Dichloroethane
 Concen: 8.903 ppbv
 RT: 6.38 min Scan# 1070
 Delta R.T. -0.01 min
 Lab File: VL034037.D
 Acq: 17 Jul 2019 17:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0717ABS01

Tot Ion: 62 Resp: 1581400
 Ion Ratio Lower Upper
 62 100
 98 5.7 4.4 6.6

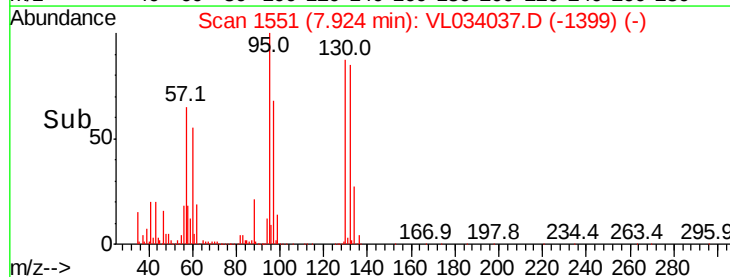
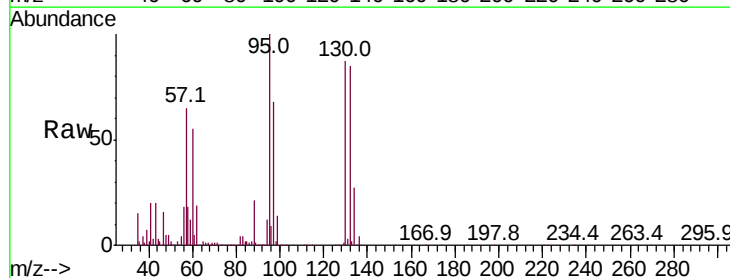
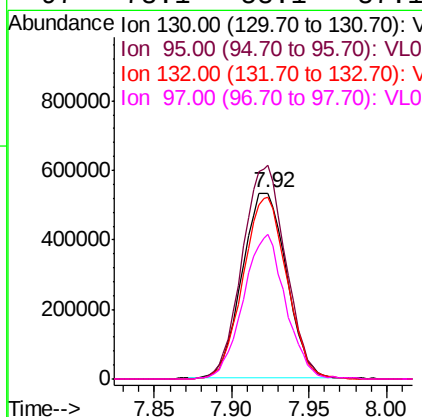
Manual Integrations
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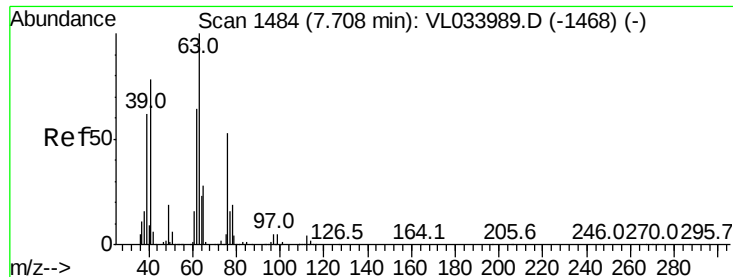
MMDadoda
 7/19/2019 1:37:12 AM



#38
 Trichloroethene
 Concen: 9.923 ppbv
 RT: 7.92 min Scan# 1551
 Delta R.T. -0.01 min
 Lab File: VL034037.D
 Acq: 17 Jul 2019 17:54

Tgt Ion: 130 Resp: 1064604
 Ion Ratio Lower Upper
 130 100
 95 115.4 85.5 128.3
 132 97.8 75.1 112.7
 97 78.1 58.1 87.1





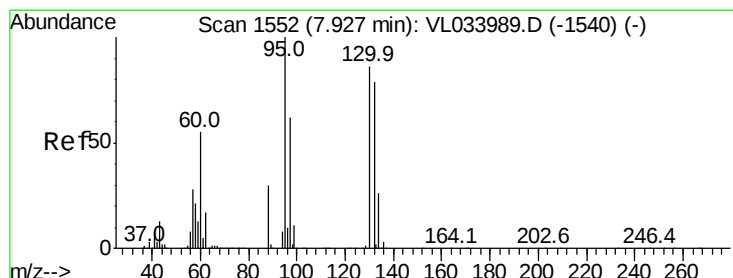
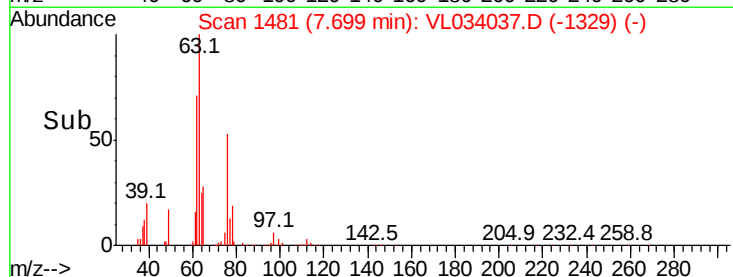
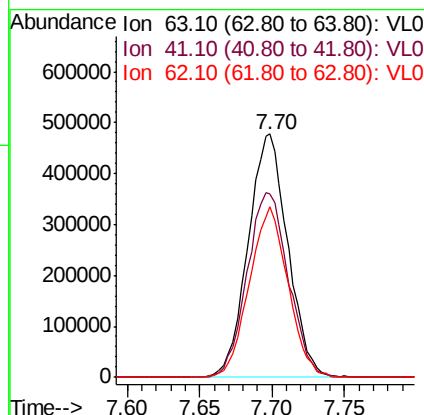
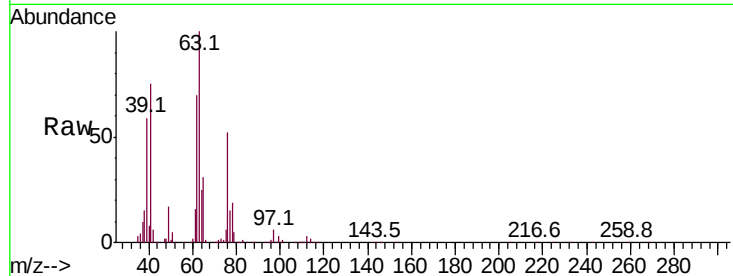
#39
 1,2-Dichloropropane
 Concen: 10.129 ppbv
 RT: 7.70 min Scan# 1481
 Delta R.T. -0.01 min
 Lab File: VL034037.D
 Acq: 17 Jul 2019 17:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0717ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	75.3	62.3	93.5
62	70.3	51.4	77.2

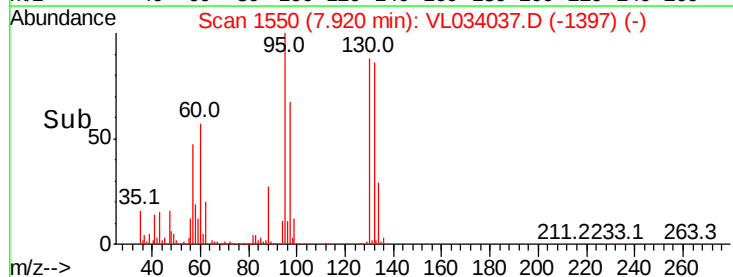
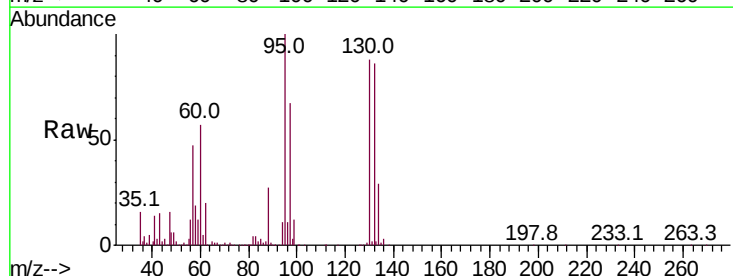
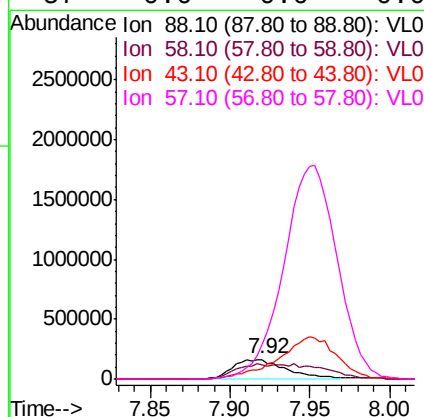
Manual Integrations
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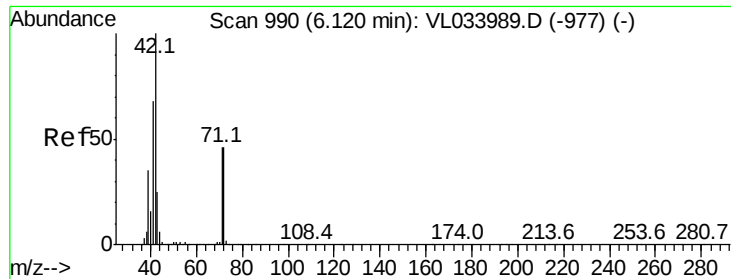
MMDadoda
 7/19/2019 1:37:12 AM



#40
 1,4-Dioxane
 Concen: 9.082 ppbv m
 RT: 7.92 min Scan# 1550
 Delta R.T. -0.01 min
 Lab File: VL034037.D
 Acq: 17 Jul 2019 17:54

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	99.1	148.7#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 10.708 ppbv

RT: 6.11 min Scan# 987

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

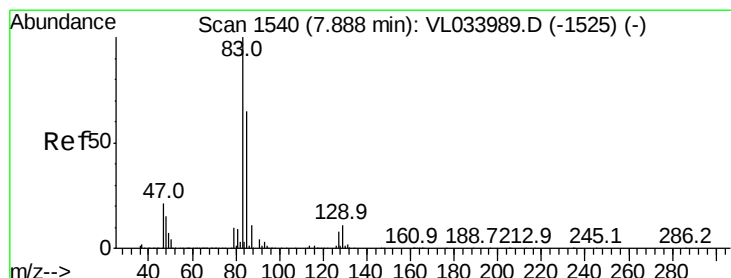
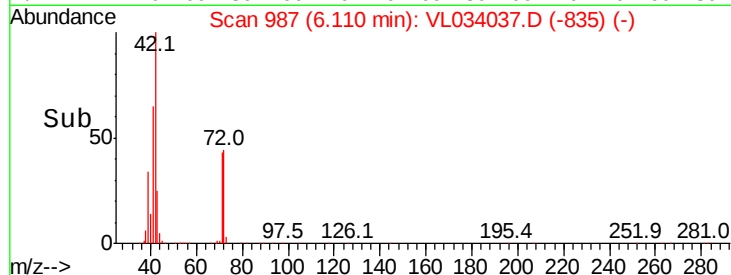
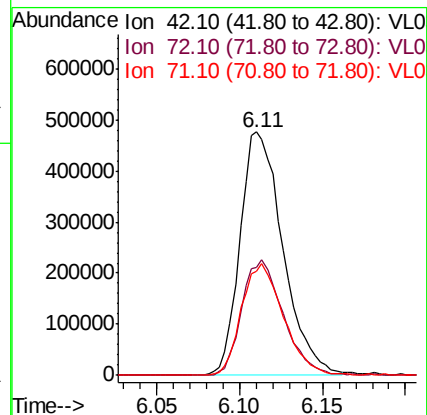
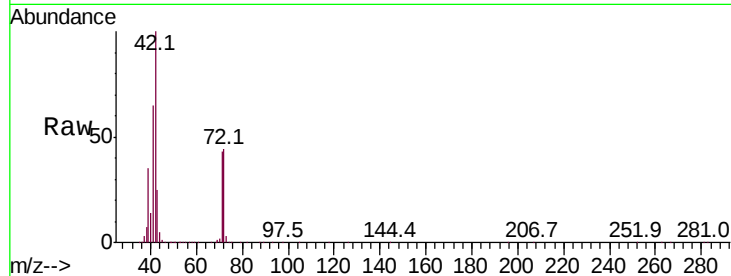
ClientSampleId :

VL0717ABS01

Tot Ion:	42	Resp:	856420
Ion Ratio	Lower	Upper	
42	100		
72	46.2	37.3	55.9
71	45.3	36.2	54.2

Manual Integrations
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#42

Bromodichloromethane

Concen: 9.555 ppbv

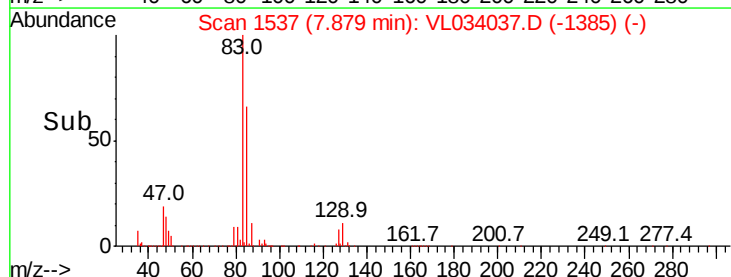
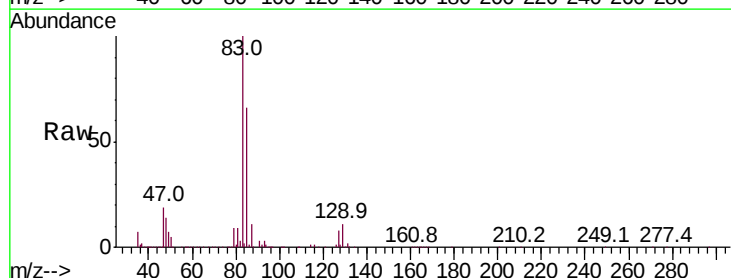
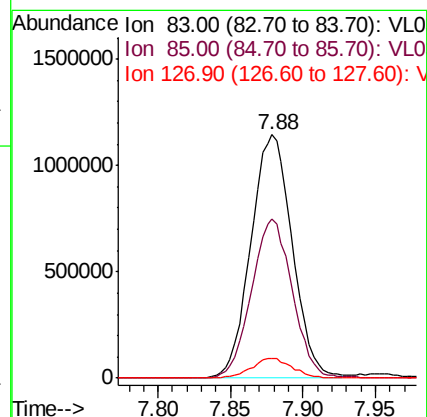
RT: 7.88 min Scan# 1537

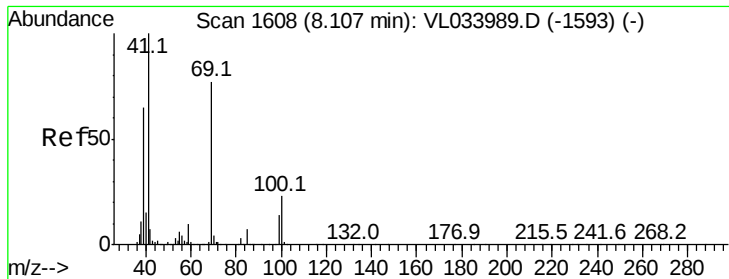
Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Tgt Ion:	83	Resp:	2277255
Ion Ratio	Lower	Upper	
83	100		
85	65.5	51.8	77.8
127	8.0	6.5	9.7





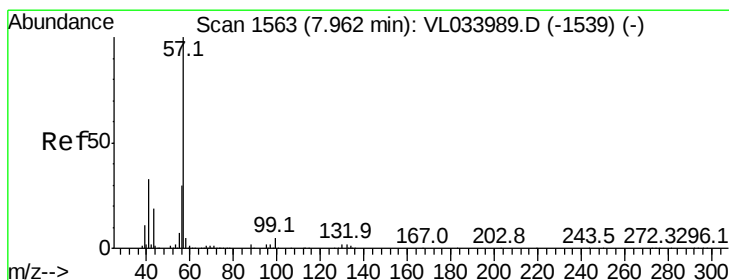
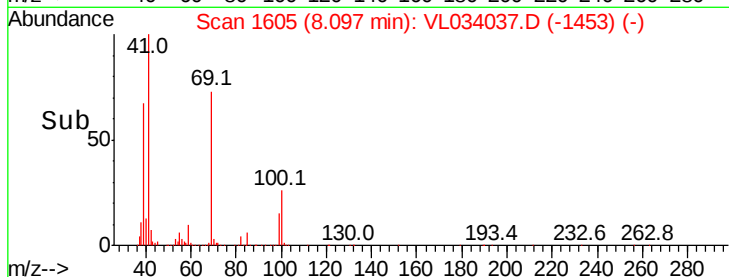
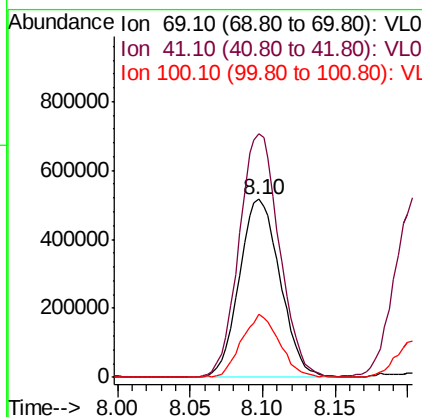
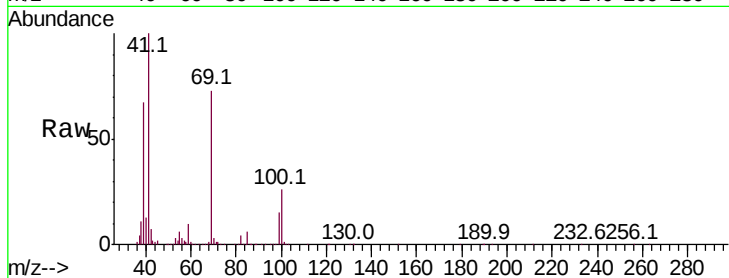
#43
Methvl Methacrylate
Concen: 11.074 ppbv
RT: 8.10 min Scan# 1605
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

Instrument :
MSVOA_L
ClientSampleId :
VL0717ABS01

Tot Ion: 69 Resp: 1013069
Ion Ratio Lower Upper
69 100
41 135.1 109.1 163.7
100 32.8 25.3 37.9

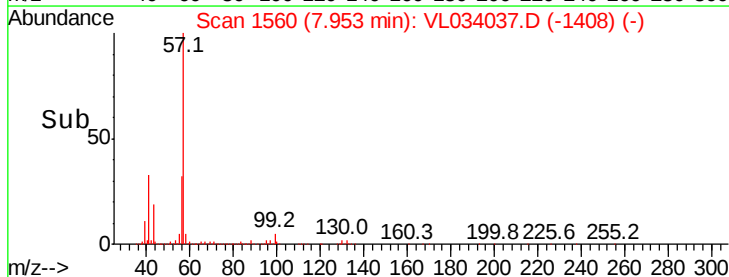
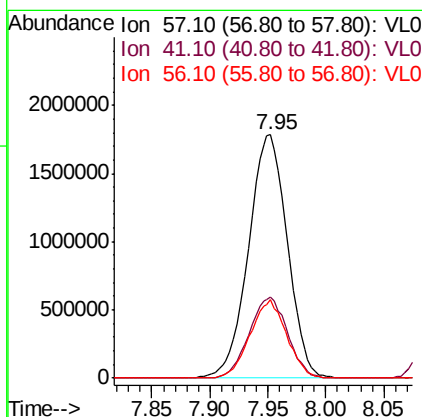
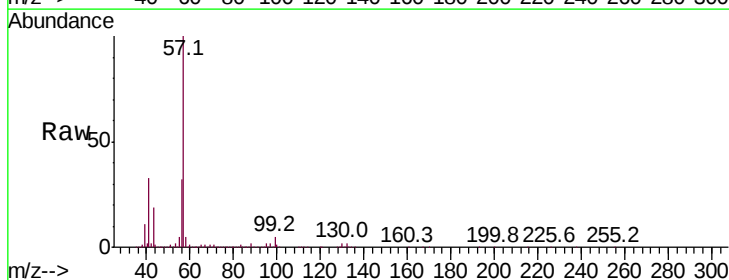
Manual Integrations
APPROVED

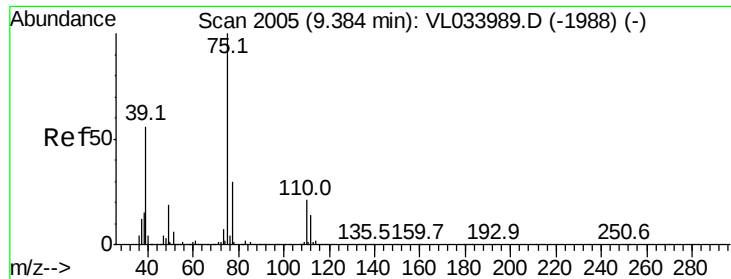
MMDadoda
7/19/2019 1:37:12 AM



#44
2,2,4-Trimethylpentane
Concen: 9.989 ppbv
RT: 7.95 min Scan# 1560
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

Tgt Ion: 57 Resp: 4157381
Ion Ratio Lower Upper
57 100
41 32.9 26.1 39.1
56 30.3 24.4 36.6





#45

t-1,3-Dichloropropene

Concen: 11.616 ppbv

RT: 9.37 min Scan# 2001

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

ClientSampleId :

VL0717ABS01

Tot Ion: 75 Resp: 1389599

Ion Ratio Lower Upper

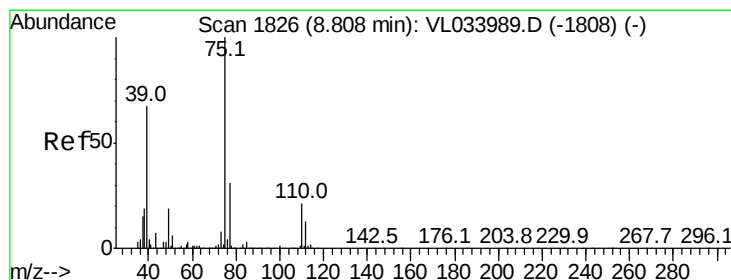
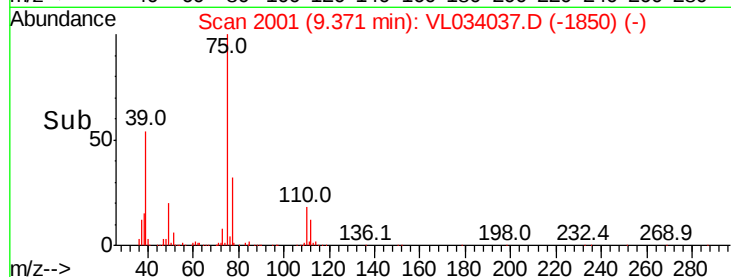
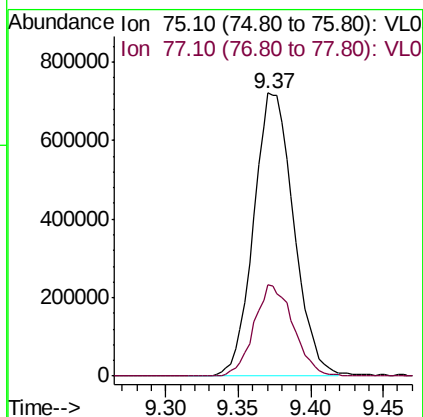
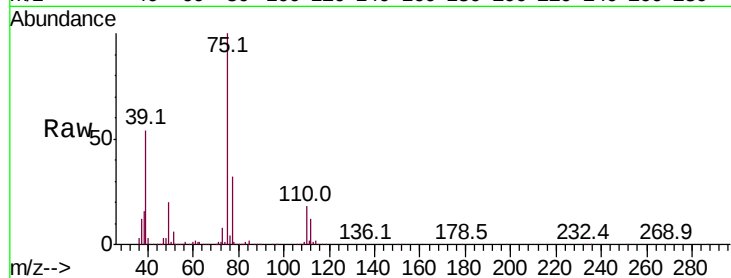
75 100

77 32.2 24.3 36.5

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#46

cis-1,3-Dichloropropene

Concen: 11.162 ppbv

RT: 8.79 min Scan# 1822

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

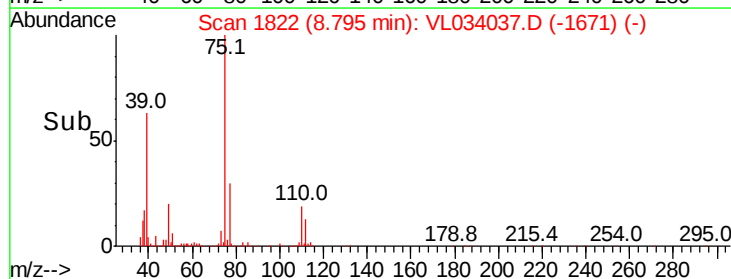
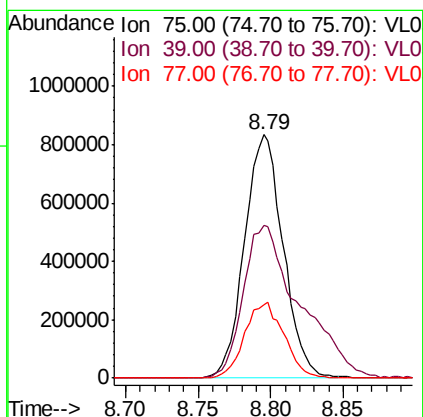
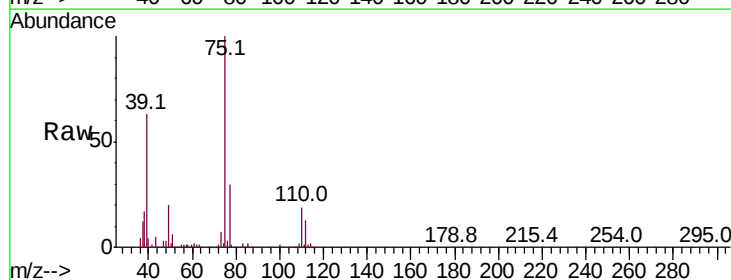
Tgt Ion: 75 Resp: 1546458

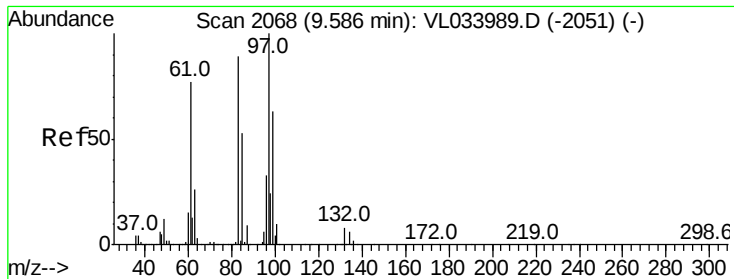
Ion Ratio Lower Upper

75 100

39 62.5 53.8 80.6

77 30.1 24.5 36.7





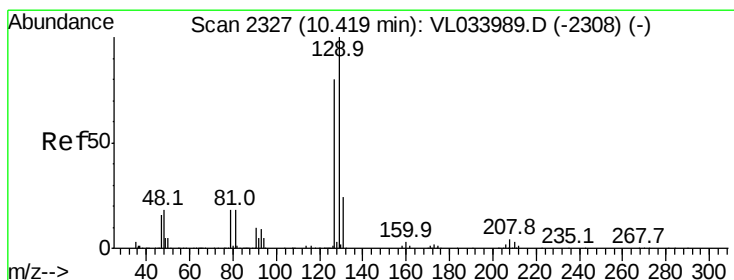
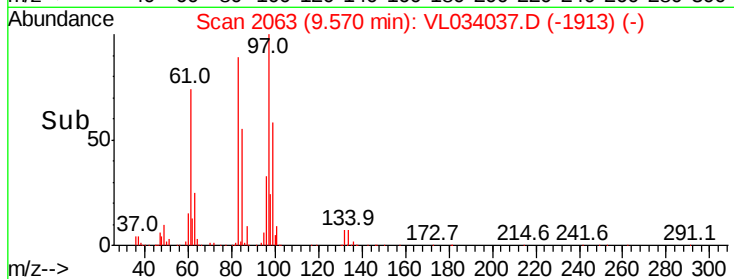
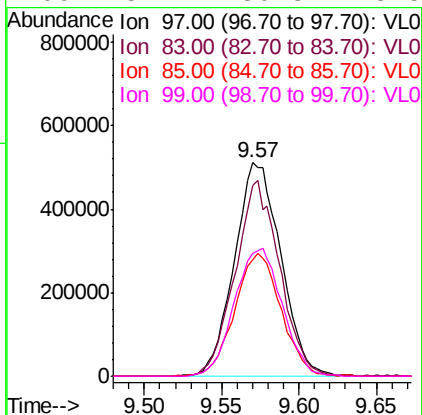
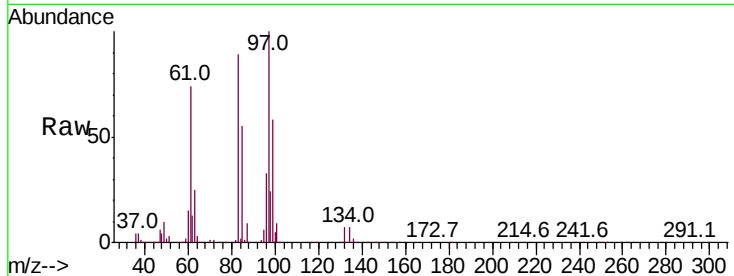
#47
 1,1,2-Trichloroethane
 Concen: 9.394 ppbv
 RT: 9.57 min Scan# 2063
 Delta R.T. -0.02 min
 Lab File: VL034037.D
 Acq: 17 Jul 2019 17:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0717ABS01

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	88.9	71.1	106.7	
85	54.6	42.6	64.0	
99	57.7	50.3	75.5	

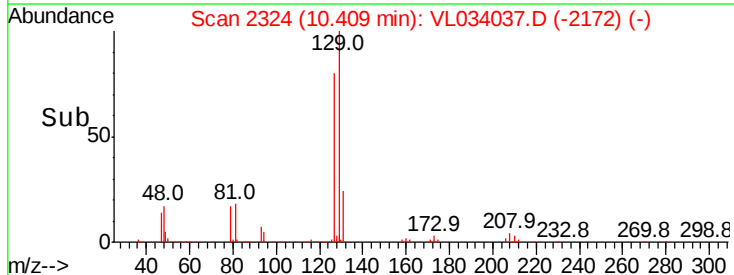
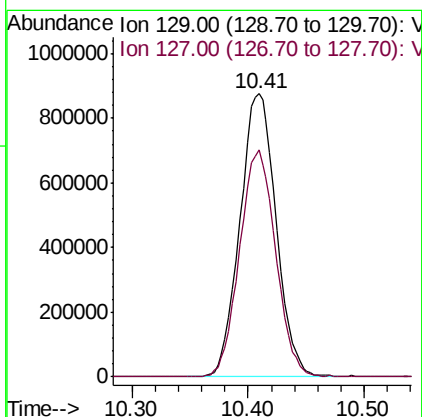
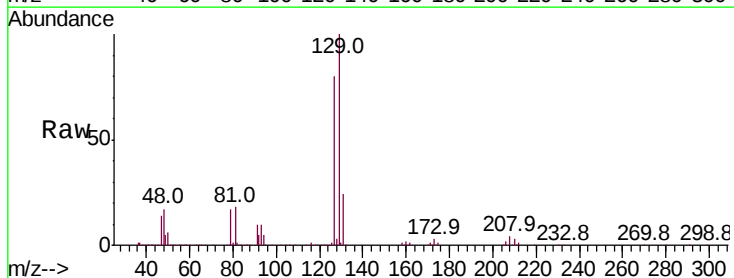
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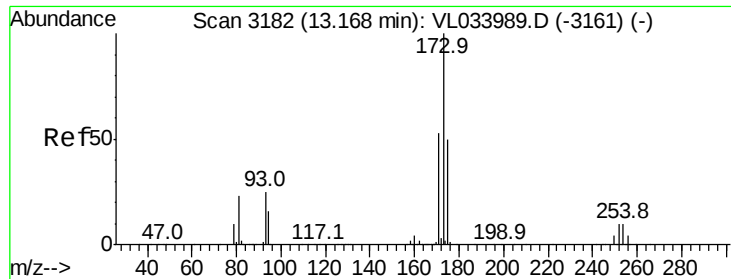
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#48
 Dibromochloromethane
 Concen: 8.862 ppbv
 RT: 10.41 min Scan# 2324
 Delta R.T. -0.01 min
 Lab File: VL034037.D
 Acq: 17 Jul 2019 17:54

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	79.5	39.1	117.3	





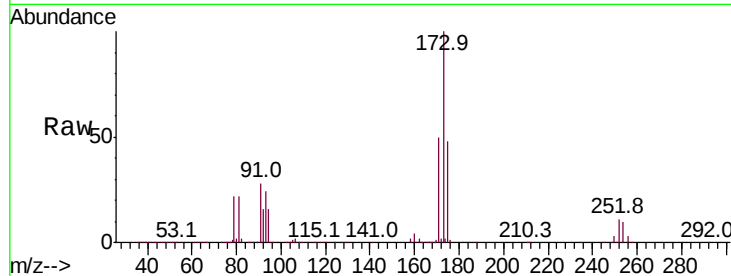
#49
Bromoform
Concen: 9.274 ppbv
RT: 13.15 min Scan# 3178
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

Instrument :
MSVOA_L
ClientSampleId :
VL0717ABS01

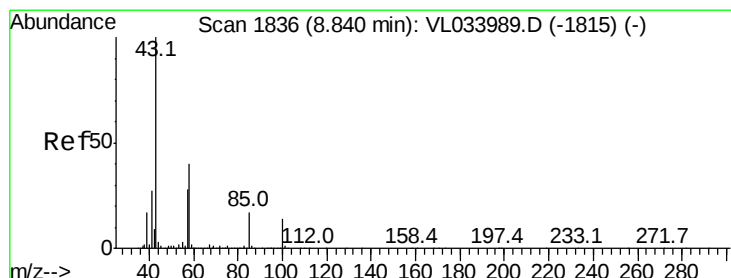
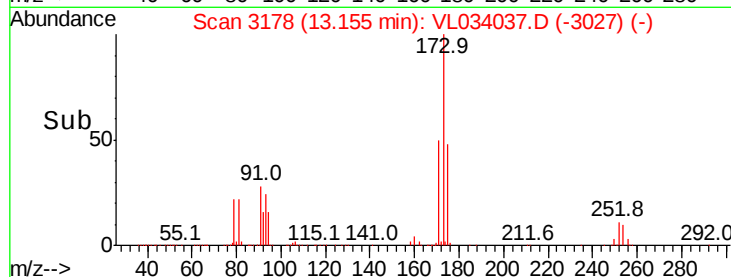
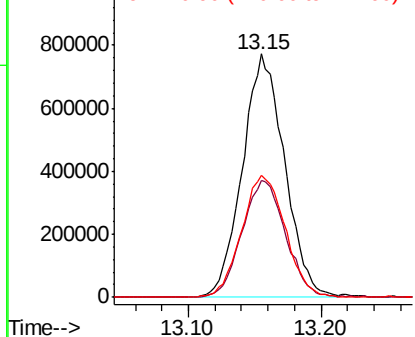
Tot Ion:173 Resp: 1704235
Ion Ratio Lower Upper
173 100
175 50.1 39.3 58.9
171 52.1 41.4 62.0

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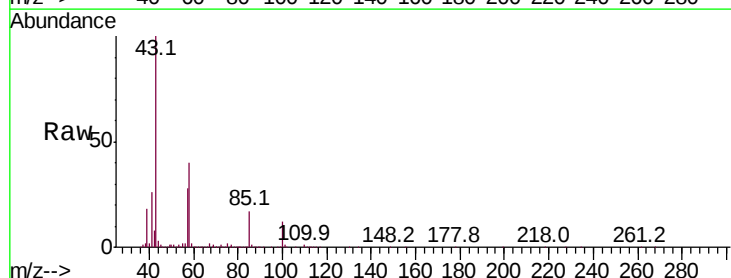


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

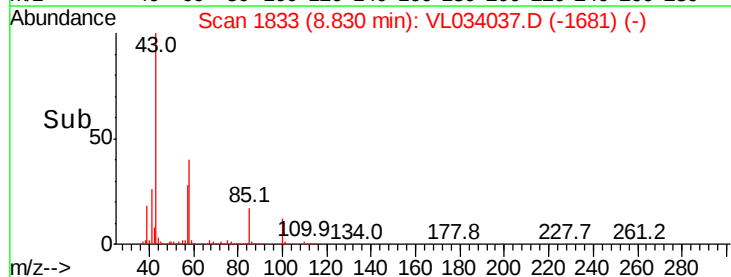
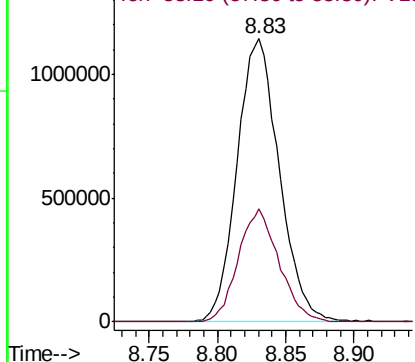


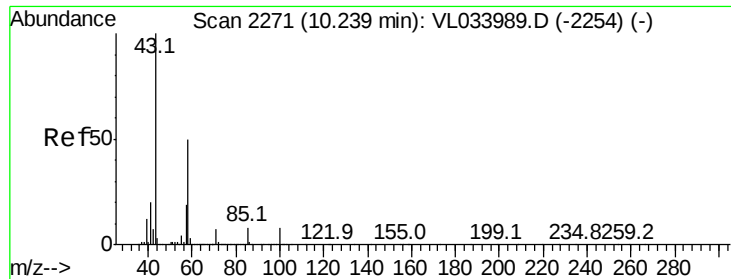
#50
4-Methyl-2-Pentanone
Concen: 10.159 ppbv
RT: 8.83 min Scan# 1833
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

Tgt Ion: 43 Resp: 2458478
Ion Ratio Lower Upper
43 100
58 38.7 30.3 45.5



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





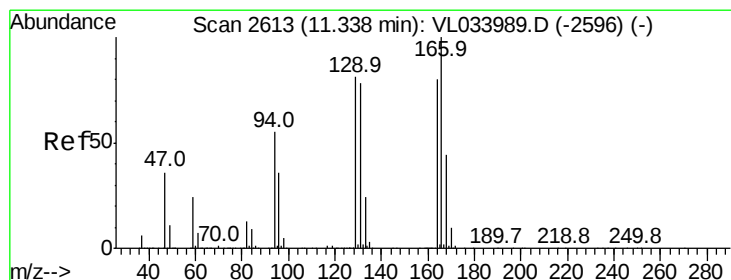
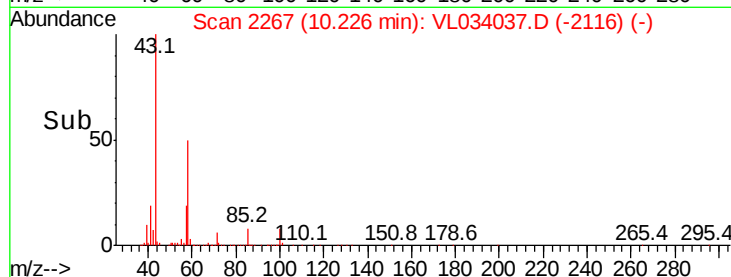
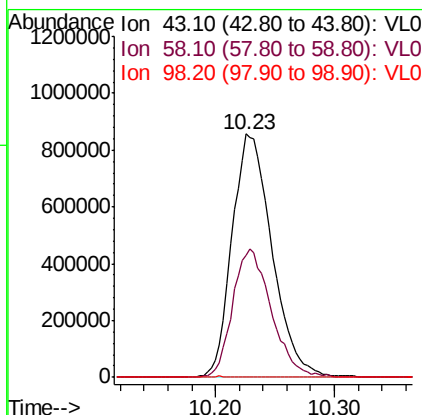
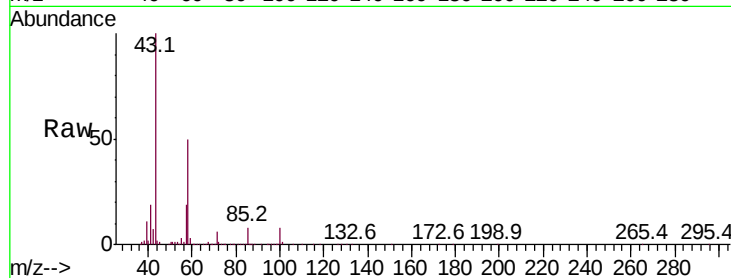
#51
2-Hexanone
Concen: 10.208 ppbv
RT: 10.23 min Scan# 2267
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

Instrument :
MSVOA_L
ClientSampleId :
VL0717ABS01

Tot Ion: 43 Resp: 1992355
Ion Ratio Lower Upper
43 100
58 51.1 41.0 61.4
98 0.3 0.2 0.2#

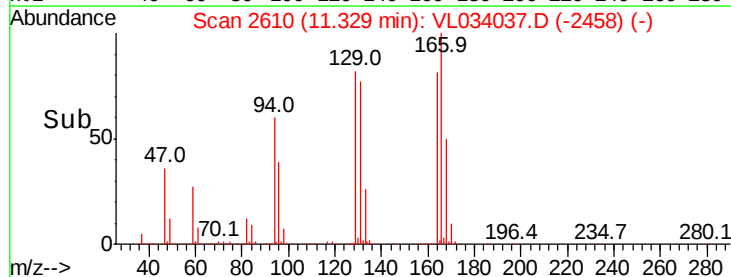
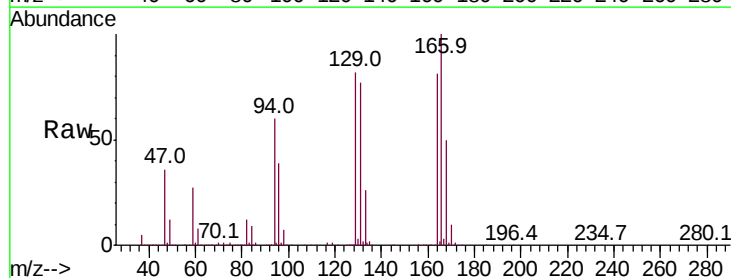
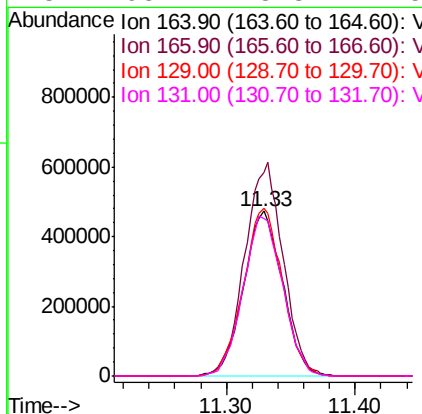
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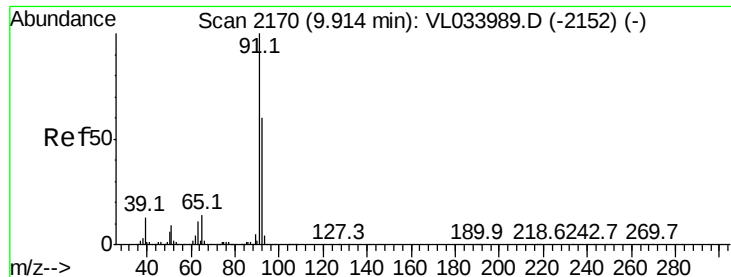
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#52
Tetrachloroethene
Concen: 9.581 ppbv
RT: 11.33 min Scan# 2610
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

Tgt Ion:164 Resp: 994335
Ion Ratio Lower Upper
164 100
166 123.5 100.2 150.2
129 101.6 81.0 121.6
131 95.2 78.3 117.5





#53

Toluene

Concen: 10.885 ppbv

RT: 9.90 min Scan# 2167

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

ClientSampleId :

VL0717ABS01

Tot Ion: 91 Resp: 3004262

Ion Ratio Lower Upper

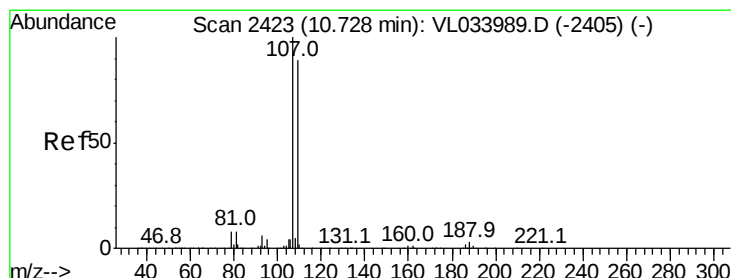
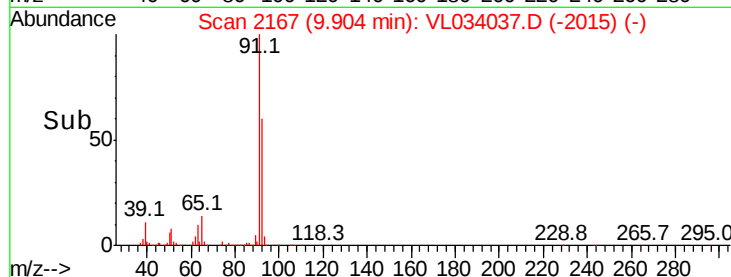
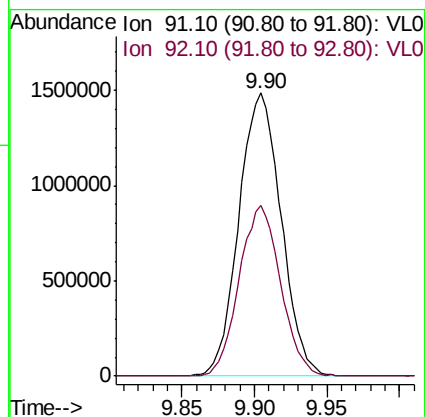
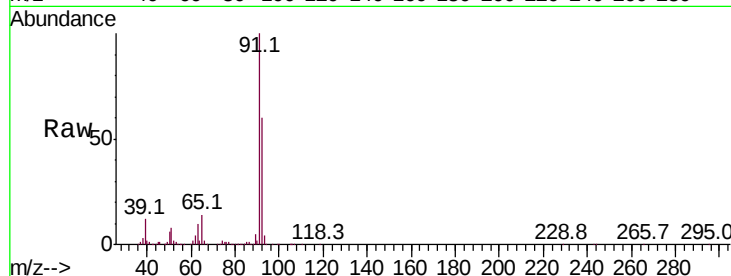
91 100

92 59.2 47.7 71.5

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#54

1,2-Dibromoethane

Concen: 9.842 ppbv

RT: 10.72 min Scan# 2420

Delta R.T. -0.01 min

Lab File: VL034037.D

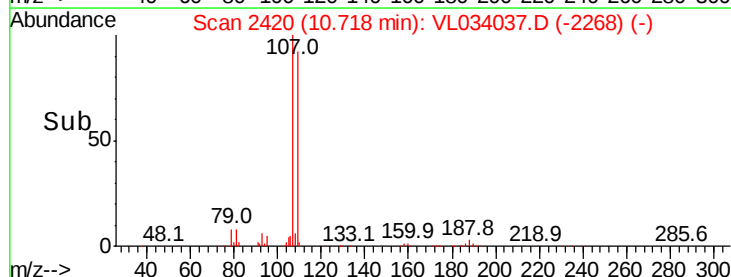
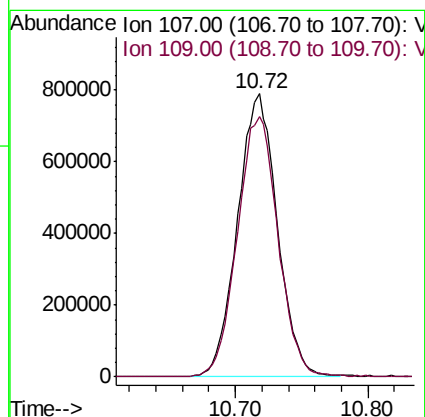
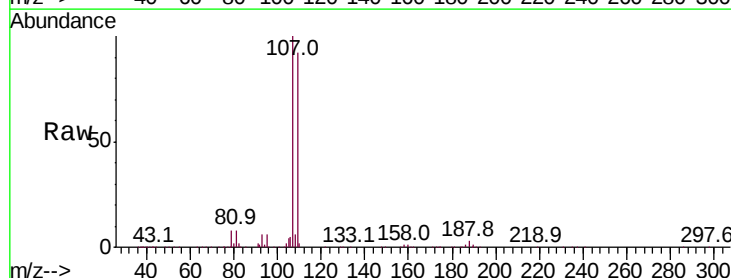
Acq: 17 Jul 2019 17:54

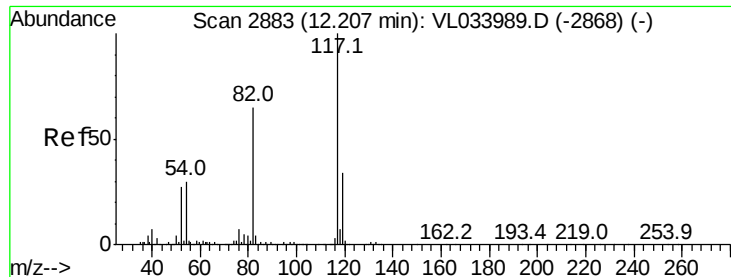
Tgt Ion: 107 Resp: 1637376

Ion Ratio Lower Upper

107 100

109 91.9 71.5 107.3





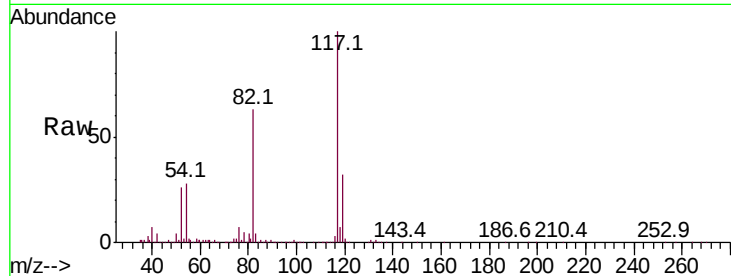
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.19 min Scan# 2879
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

Instrument :
MSVOA_L
ClientSampleId :
VL0717ABS01

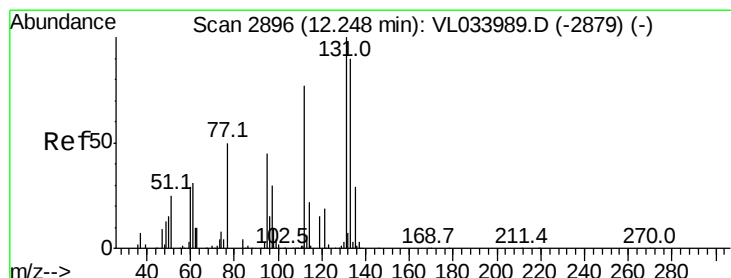
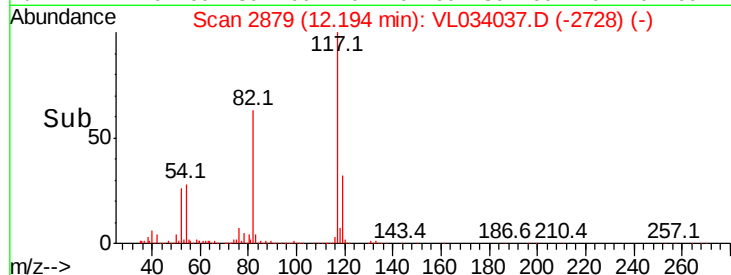
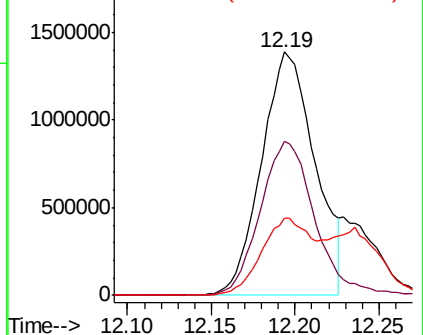
Tot Ion	Ratio	Lower	Upper
117	100		
82	65.0	50.8	76.2
119	31.0	24.0	36.0

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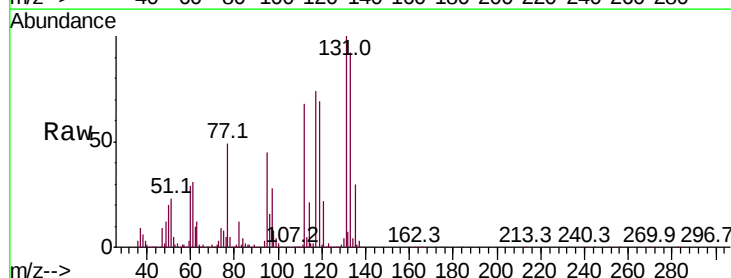


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

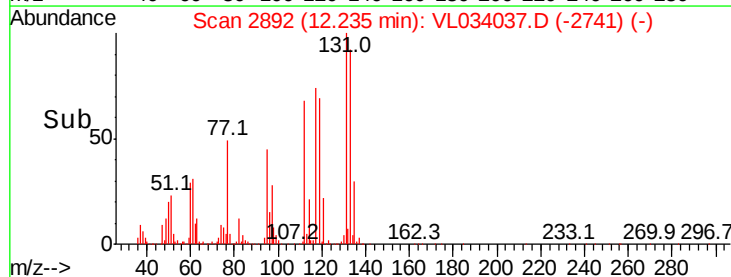
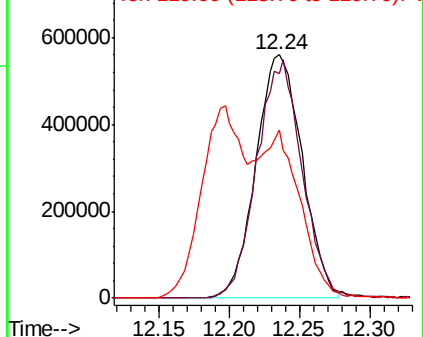


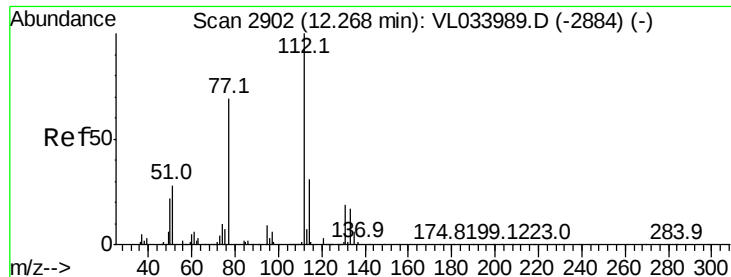
#56
1,1,1,2-Tetrachloroethane
Concen: 9.280 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.2	76.2	114.2
119	57.0	43.1	64.7



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: 9.314 ppbv

RT: 12.25 min Scan# 2898

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

ClientSampleId :

VL0717ABS01

Tot Ion: 112 Resp: 2287620

Ion Ratio Lower Upper

112 100

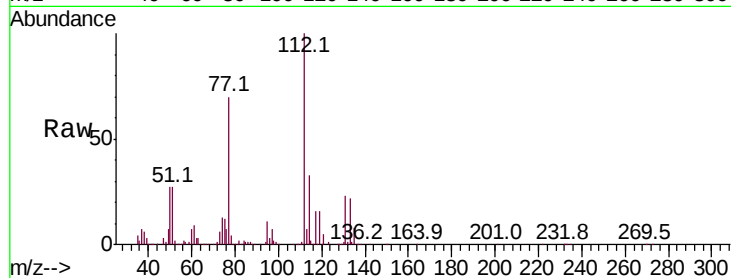
77 69.1 55.9 83.9

114 33.3 27.6 33.8

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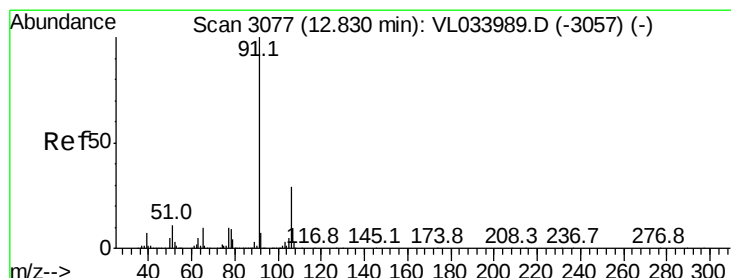
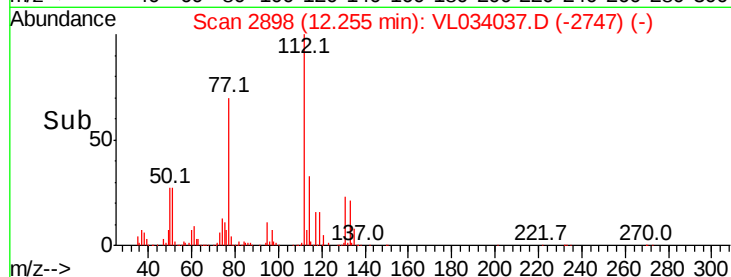
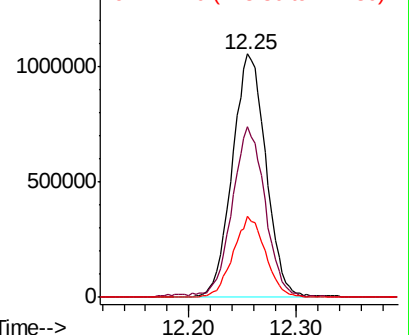
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.782 ppbv

RT: 12.82 min Scan# 3074

Delta R.T. -0.01 min

Lab File: VL034037.D

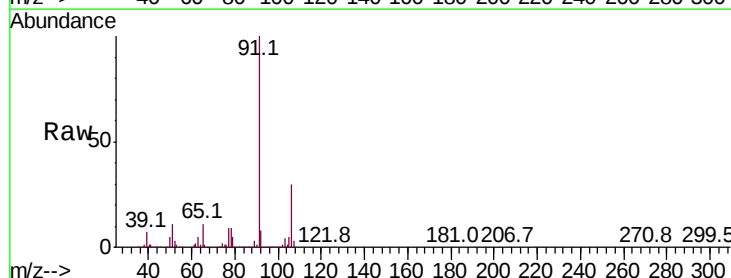
Acq: 17 Jul 2019 17:54

Tgt Ion: 91 Resp: 4000094

Ion Ratio Lower Upper

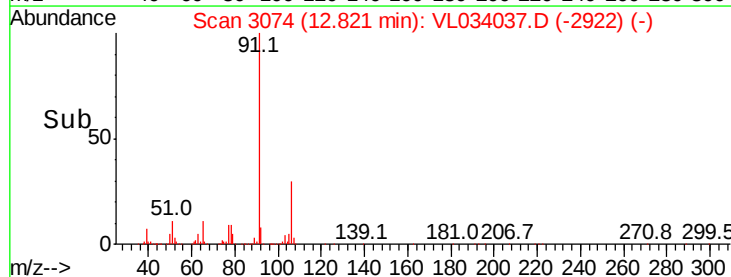
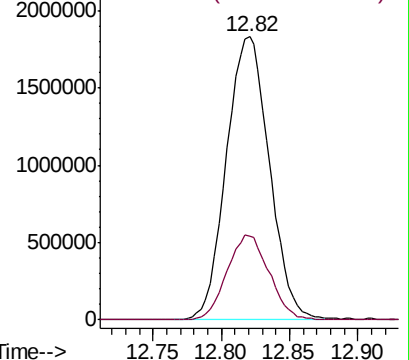
91 100

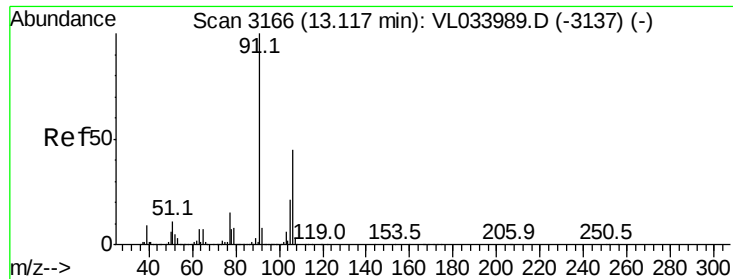
106 29.5 23.3 34.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 20.051 ppbv m

RT: 13.11 min Scan# 3163

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

ClientSampleId :

VL0717ABS01

Tot Ion: 91 Resp: 6735550

Ion Ratio Lower Upper

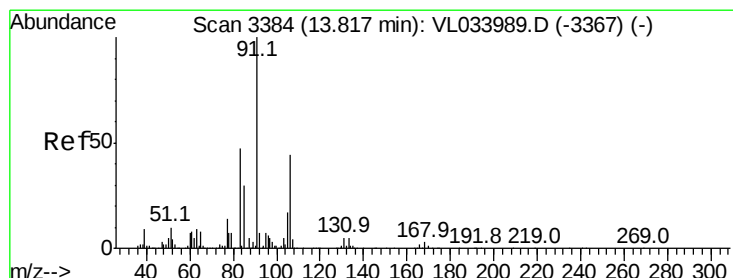
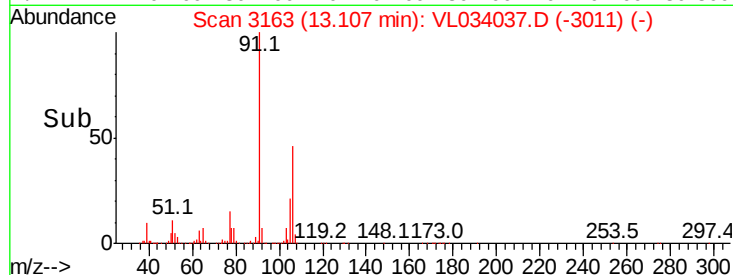
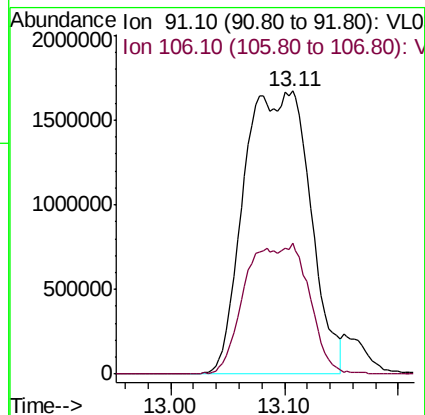
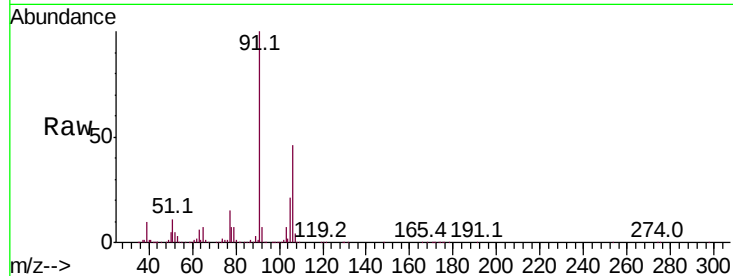
91 100

106 0.0 35.7 53.5#

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#60

o-Xylene

Concen: 9.822 ppbv

RT: 13.80 min Scan# 3380

Delta R.T. -0.01 min

Lab File: VL034037.D

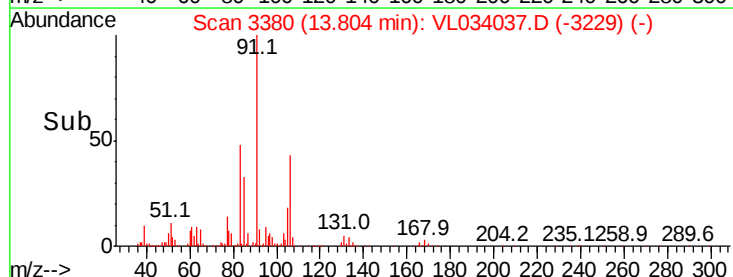
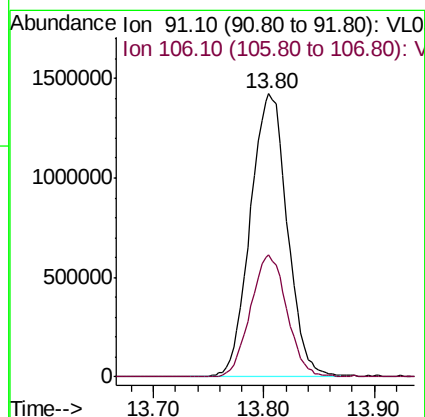
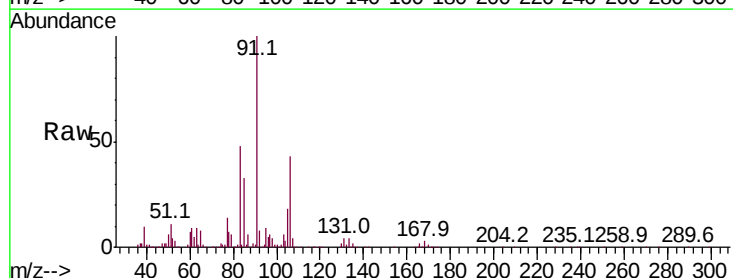
Acq: 17 Jul 2019 17:54

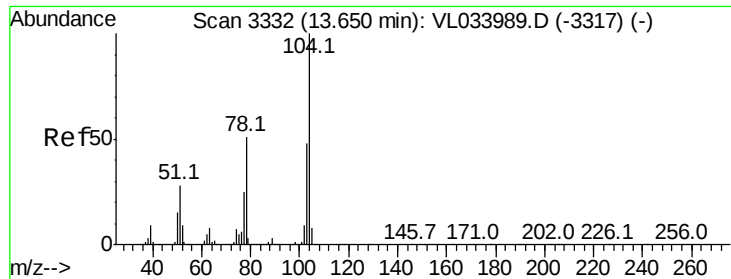
Tgt Ion: 91 Resp: 3300765

Ion Ratio Lower Upper

91 100

106 42.5 21.9 65.7





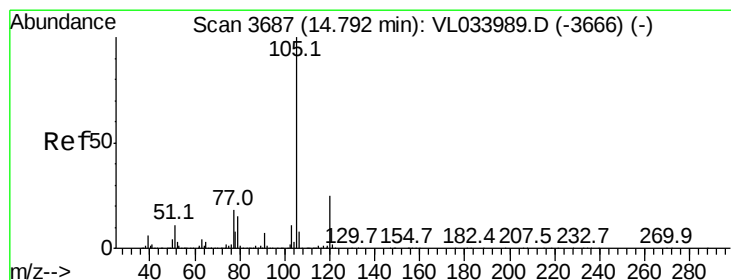
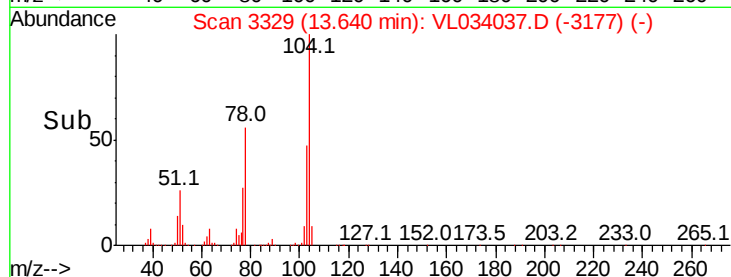
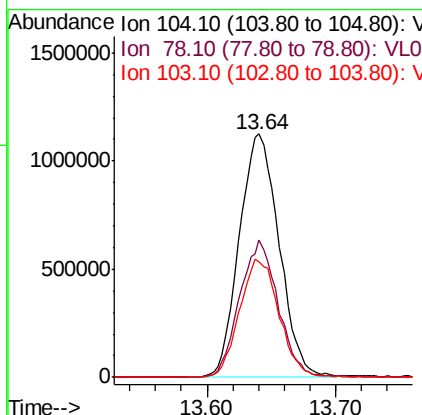
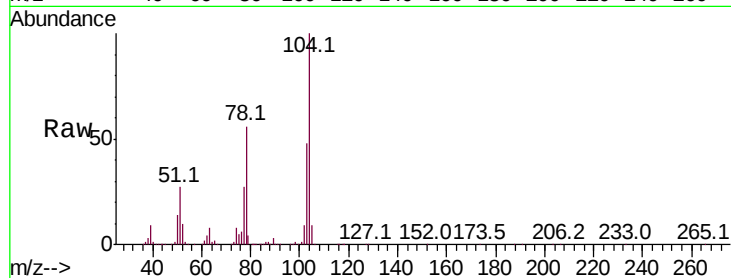
#61
Stvrene
Concen: 10.884 ppbv
RT: 13.64 min Scan# 3329
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

Instrument :
MSVOA_L
ClientSampleId :
VL0717ABS01

Tot Ion	Ratio	Lower	Upper
104	100		
78	54.8	43.9	65.9
103	48.3	38.1	57.1

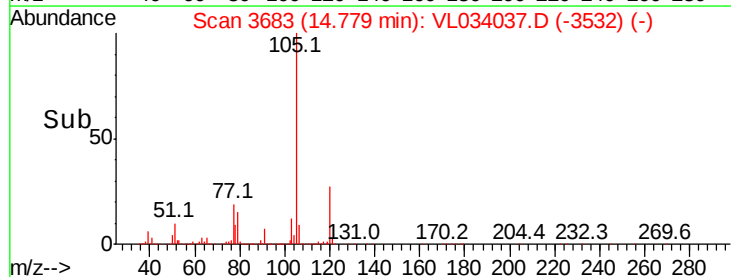
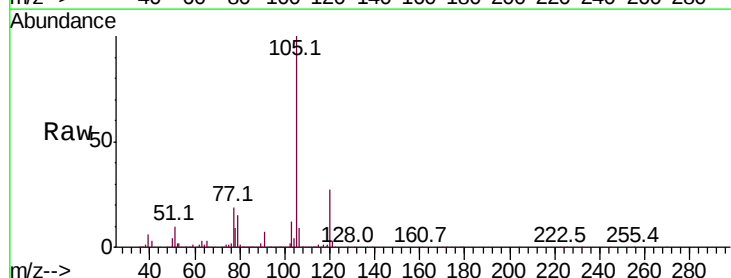
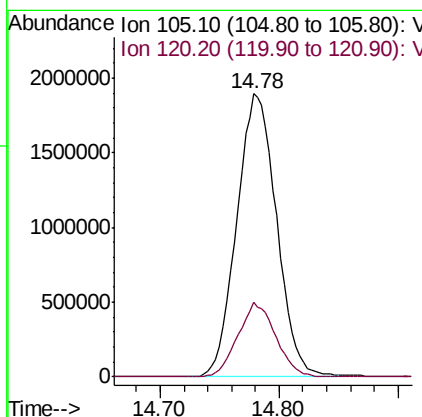
Manual Integrations
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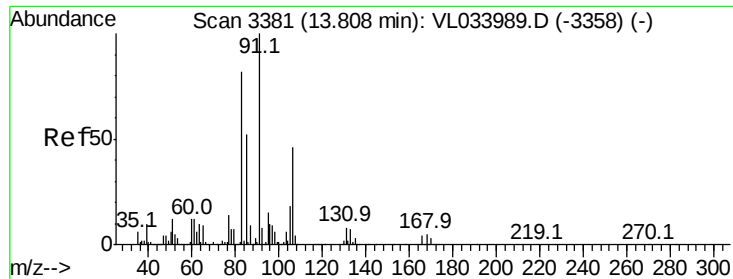
MMDadoda
7/19/2019 1:37:12 AM



#62
Isopropylbenzene
Concen: 8.472 ppbv
RT: 14.78 min Scan# 3683
Delta R.T. -0.01 min
Lab File: VL034037.D
Acq: 17 Jul 2019 17:54

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.3	20.4	30.6





#63

1,1,2,2-Tetrachloroethane

Concen: 8.511 ppbv

RT: 13.79 min Scan# 3376

Delta R.T. -0.02 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

ClientSampleId :

VL0717ABS01

Tot Ion: 83 Resp: 2213964

Ion Ratio Lower Upper

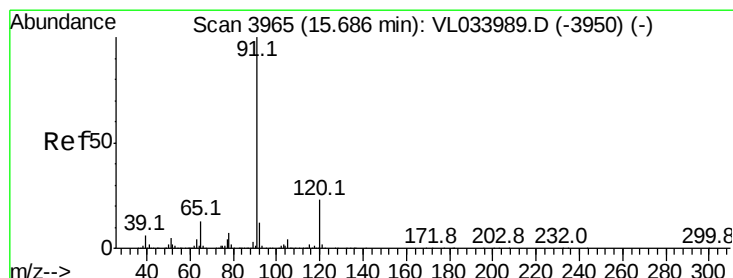
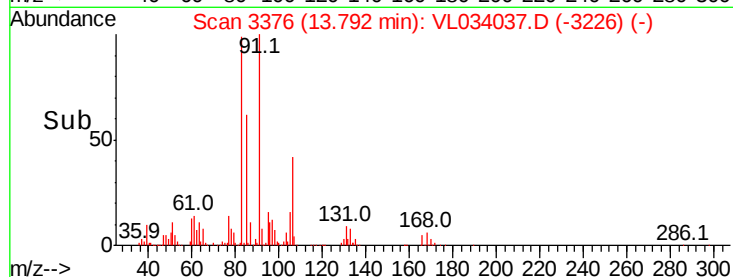
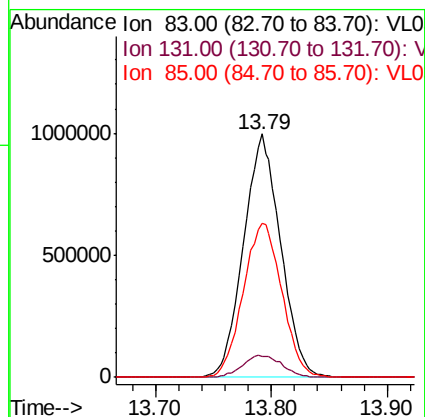
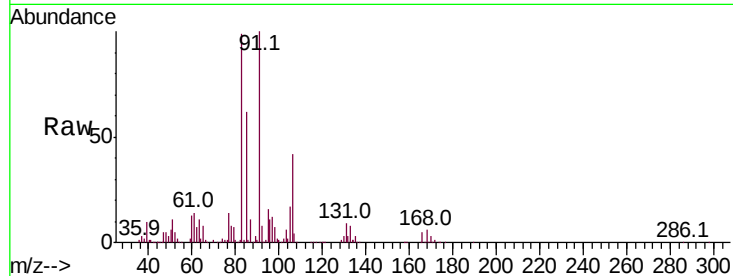
83 100

131 9.6 5.0 14.9

85 66.2 32.8 98.3

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#64

n-propylbenzene

Concen: 8.468 ppbv

RT: 15.67 min Scan# 3961

Delta R.T. -0.01 min

Lab File: VL034037.D

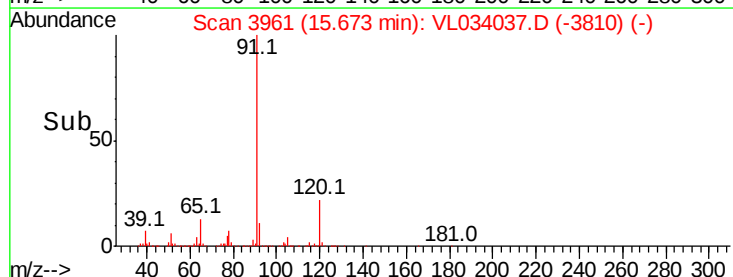
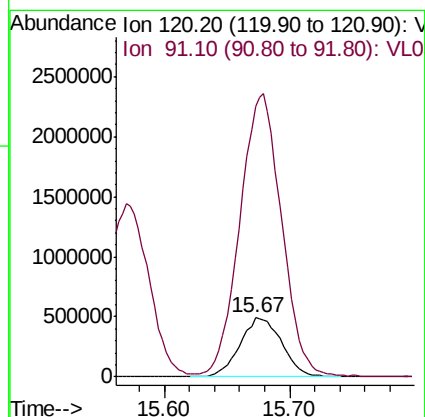
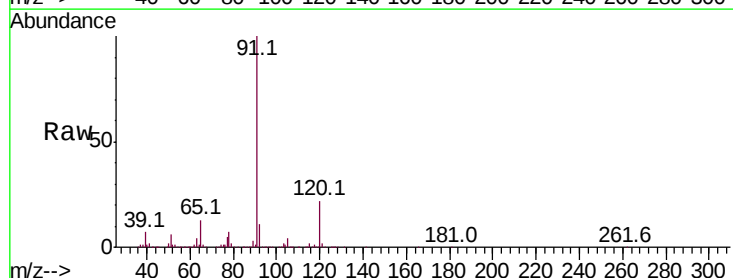
Acq: 17 Jul 2019 17:54

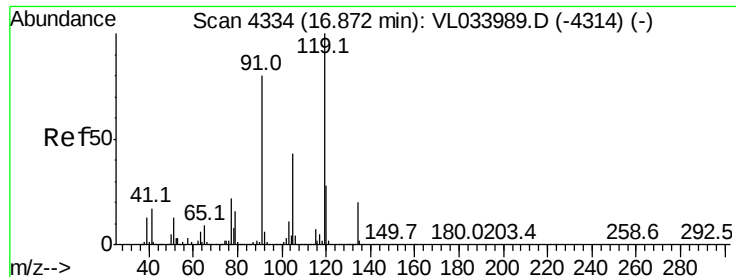
Tgt Ion:120 Resp: 1134374

Ion Ratio Lower Upper

120 100

91 481.6 386.6 579.8





#65

tert-Butylbenzene

Concen: 8.916 ppbv

RT: 16.86 min Scan# 4331

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

ClientSampleId :

VL0717ABS01

Tot Ion:119 Resp: 3916925

Ion Ratio Lower Upper

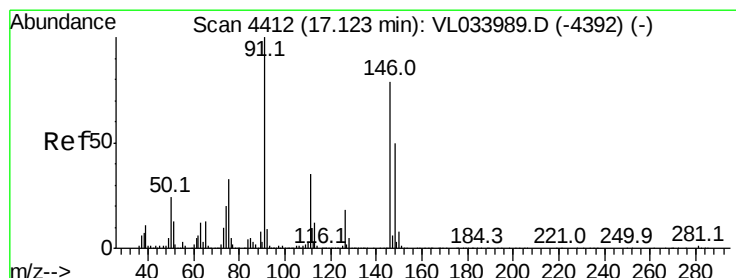
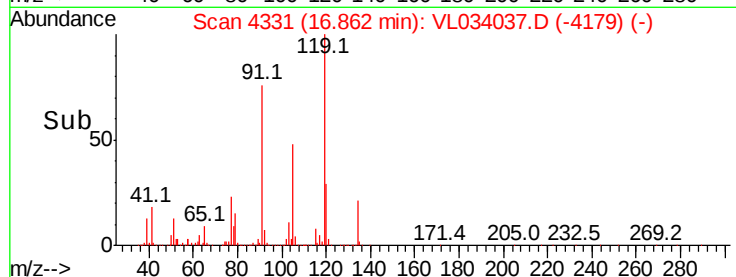
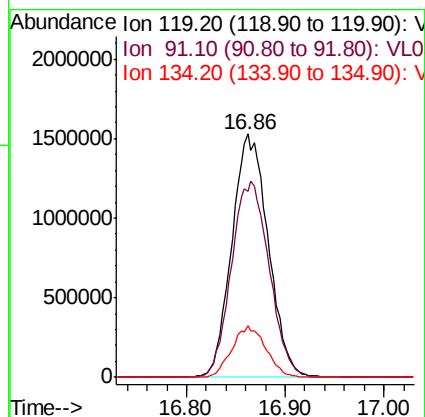
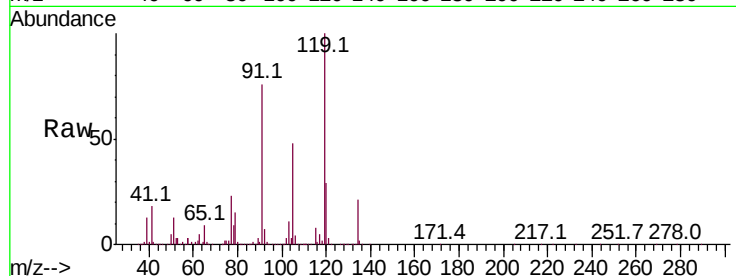
119 100

91 83.7 67.0 100.6

134 19.9 15.8 23.6

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#66

Benzyl Chloride

Concen: 9.723 ppbv

RT: 17.11 min Scan# 4408

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

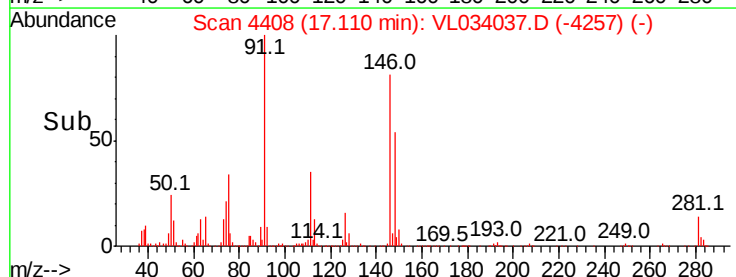
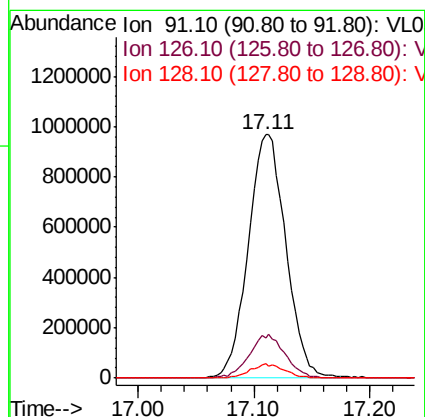
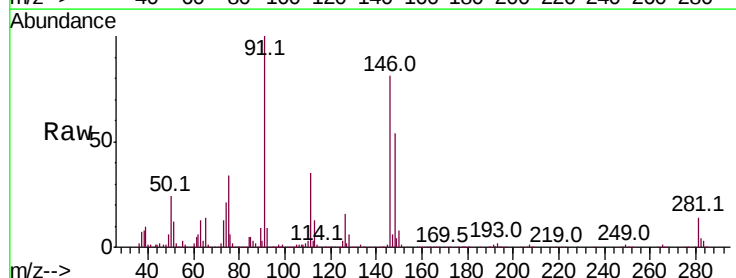
Tgt Ion: 91 Resp: 2185300

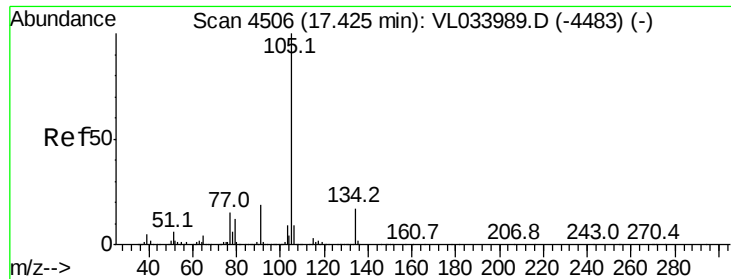
Ion Ratio Lower Upper

91 100

126 17.3 13.9 20.9

128 5.4 4.6 7.0





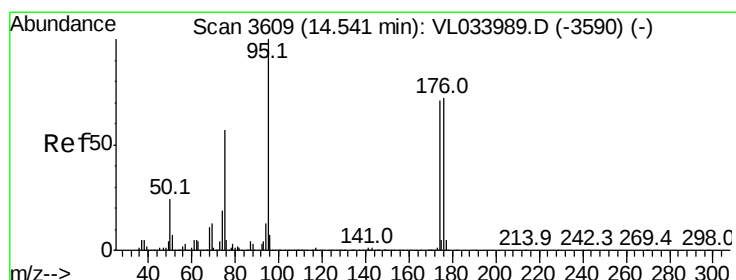
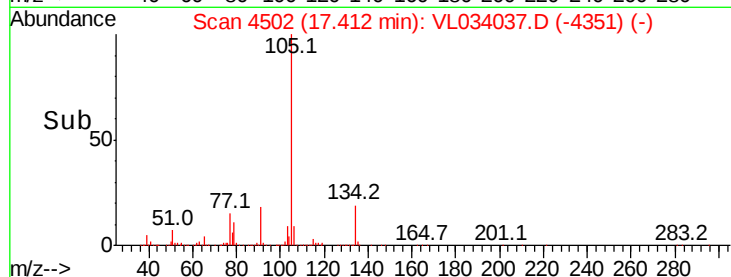
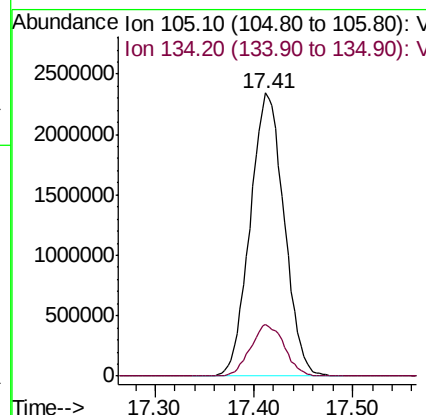
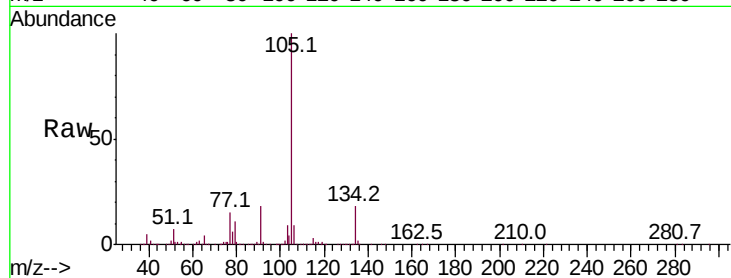
#67
 sec-Butylbenzene
 Concen: 9.030 ppbv
 RT: 17.41 min Scan# 4502
 Delta R.T. -0.01 min
 Lab File: VL034037.D
 Acq: 17 Jul 2019 17:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0717ABS01

Tot Ion:105 Resp: 5568445
 Ion Ratio Lower Upper
 105 100
 134 18.2 14.7 22.1

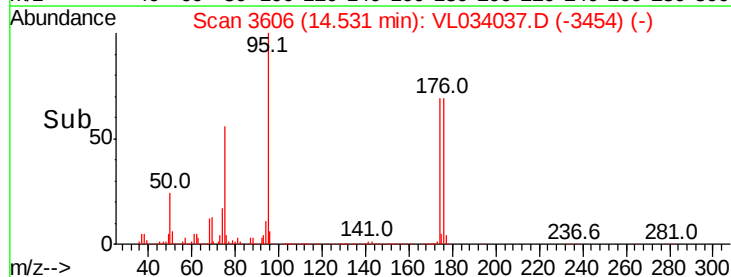
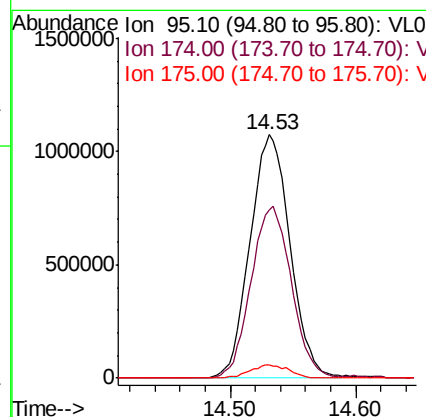
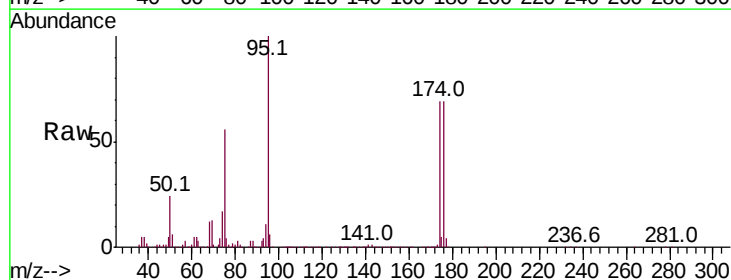
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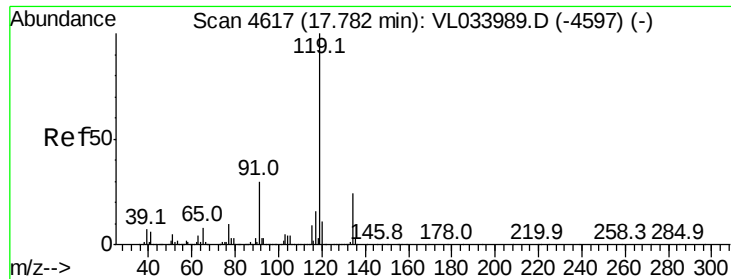
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.075 ppbv
 RT: 14.53 min Scan# 3606
 Delta R.T. -0.01 min
 Lab File: VL034037.D
 Acq: 17 Jul 2019 17:54

Tgt Ion: 95 Resp: 2387790
 Ion Ratio Lower Upper
 95 100
 174 72.1 60.5 90.7
 175 5.3 4.0 6.0





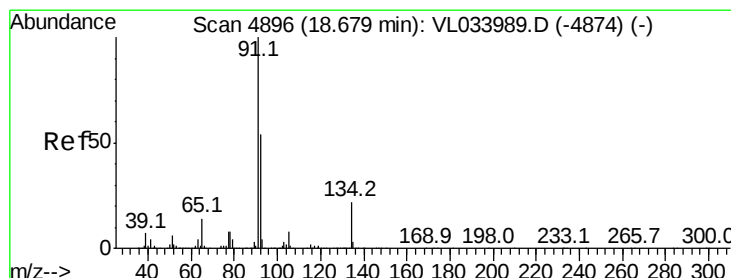
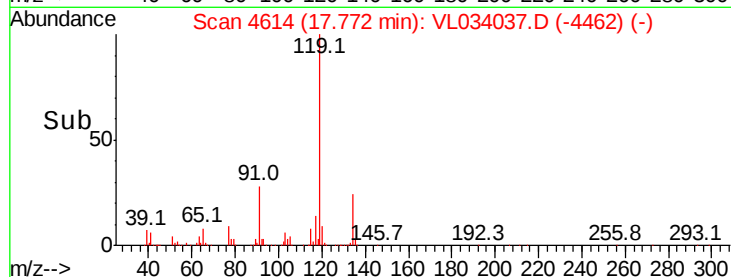
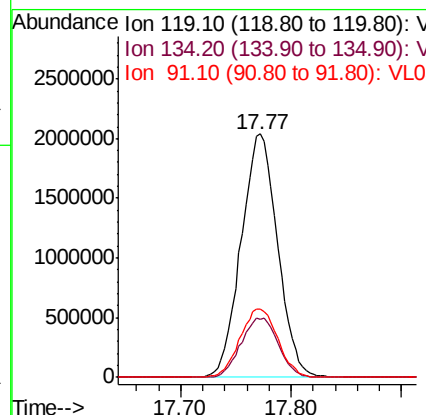
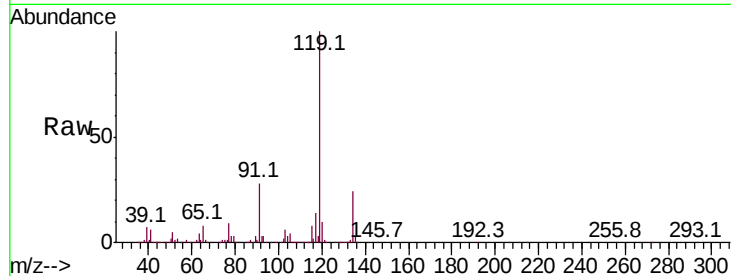
#69
 p-Isopropyltoluene
 Concen: 9.161 ppbv
 RT: 17.77 min Scan# 4614
 Delta R.T. -0.01 min
 Lab File: VL034037.D
 Acq: 17 Jul 2019 17:54

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0717ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.1	20.1	30.1
91	29.3	23.6	35.4

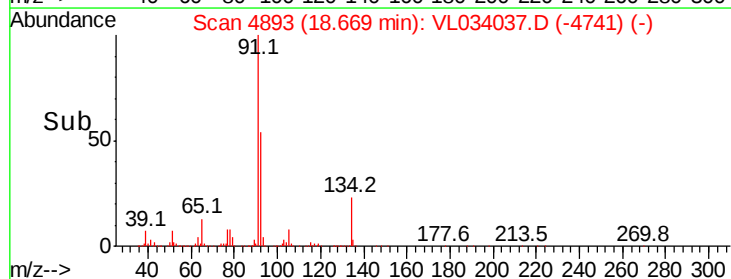
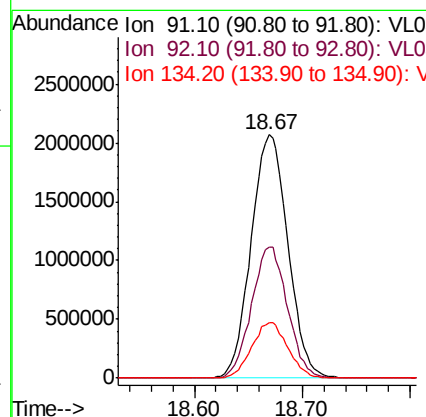
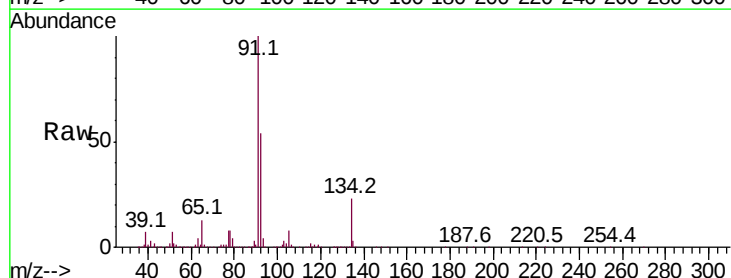
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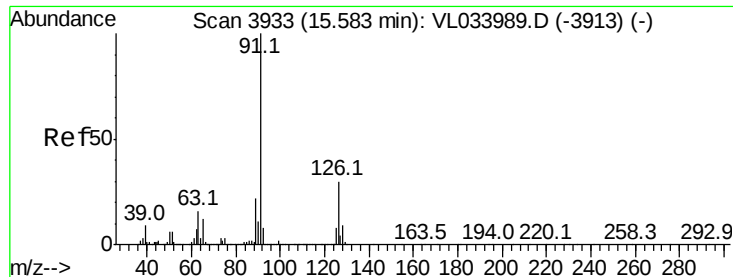
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#70
 n-Butylbenzene
 Concen: 9.180 ppbv
 RT: 18.67 min Scan# 4893
 Delta R.T. -0.01 min
 Lab File: VL034037.D
 Acq: 17 Jul 2019 17:54

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.6	42.0	63.0
134	22.4	17.9	26.9





#71

2-Chlorotoluene

Concen: 8.774 ppbv

RT: 15.57 min Scan# 3929

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

ClientSampleId :

VL0717ABS01

Tot Ion: 91 Resp: 3317213

Ion Ratio Lower Upper

91 100

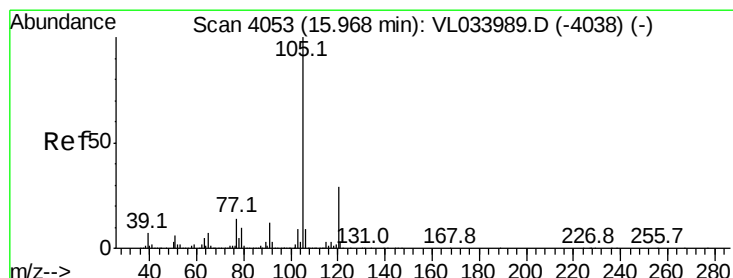
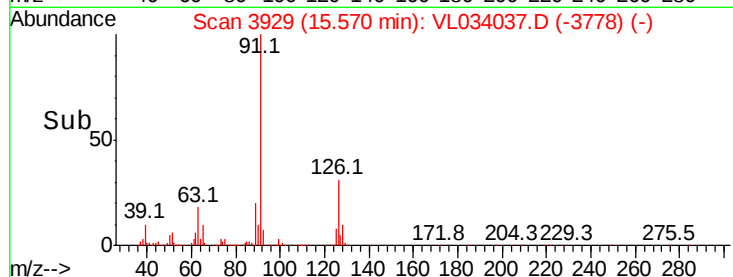
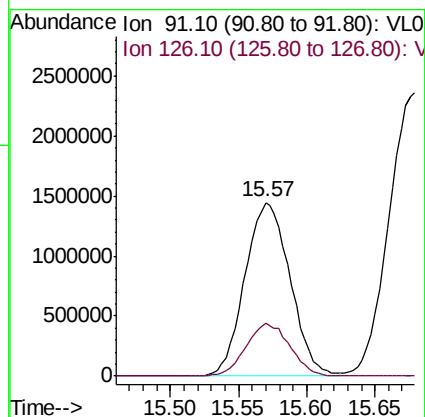
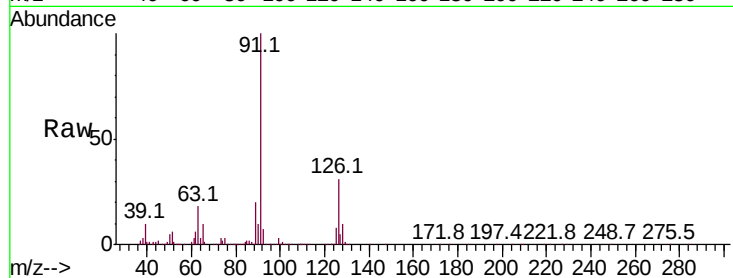
126 29.8 12.3 49.3

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#72

4-Ethyltoluene

Concen: 8.987 ppbv

RT: 15.96 min Scan# 4049

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Tgt Ion: 105 Resp: 3878411

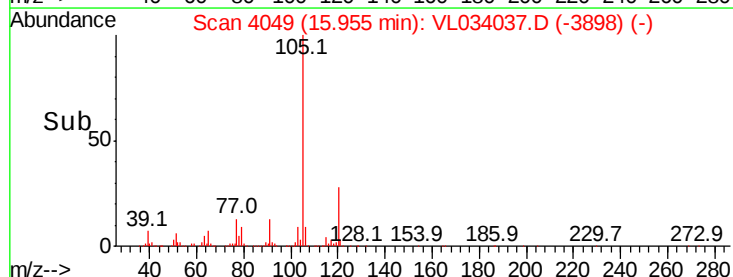
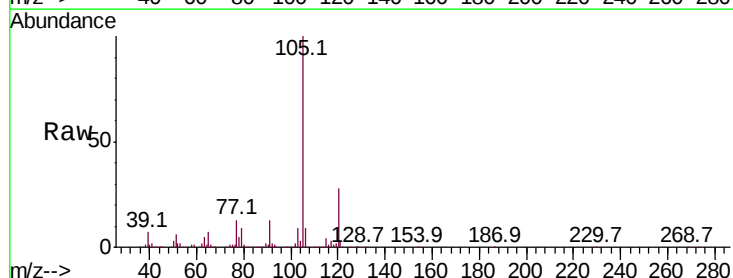
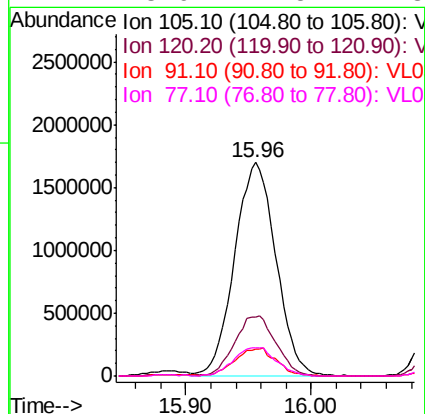
Ion Ratio Lower Upper

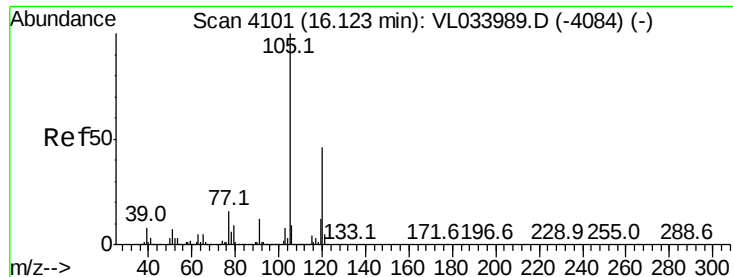
105 100

120 28.3 24.1 36.1

91 13.5 10.6 16.0

77 13.9 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 9.253 ppbv

RT: 16.11 min Scan# 4097

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

ClientSampleId :

VL0717ABS01

Tot Ion:105 Resp: 3715662

Ion Ratio Lower Upper

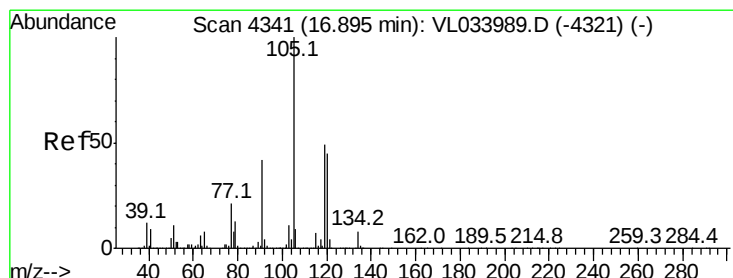
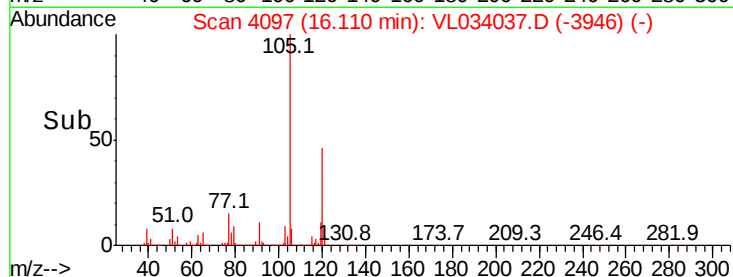
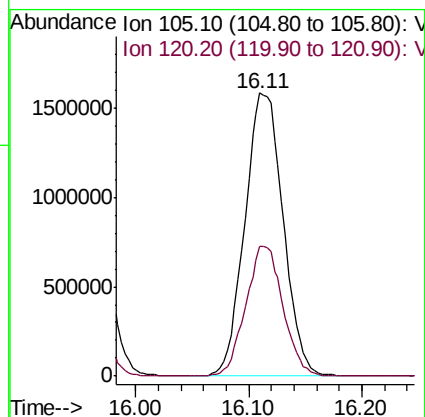
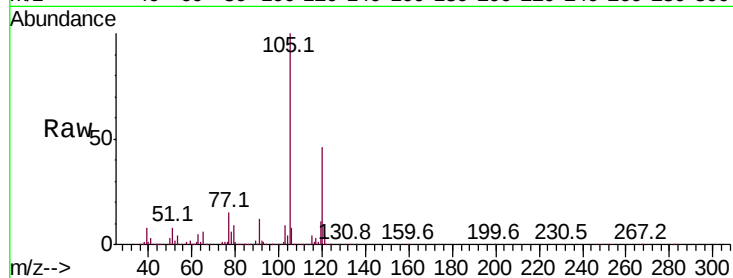
105 100

120 45.7 36.4 54.6

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#74

1,2,4-Trimethylbenzene

Concen: 8.686 ppbv

RT: 16.88 min Scan# 4337

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Tgt Ion:105 Resp: 3863295

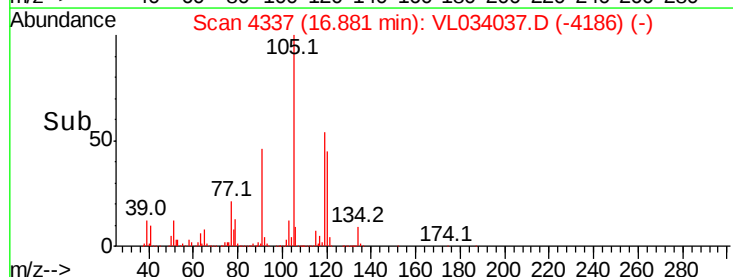
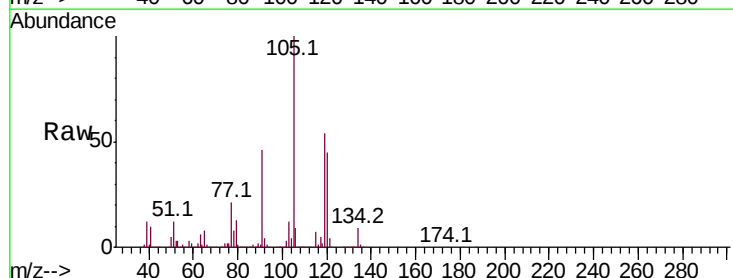
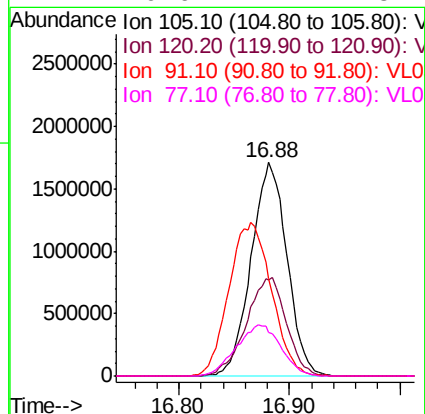
Ion Ratio Lower Upper

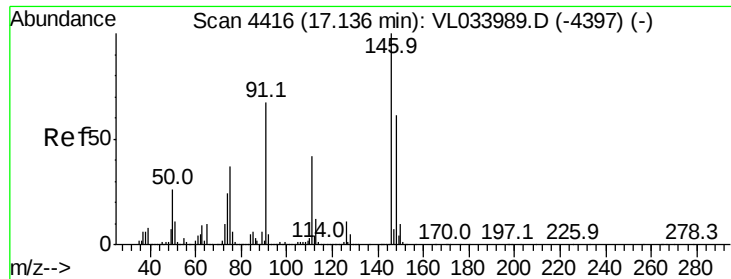
105 100

120 45.0 36.2 54.2

91 45.3 34.3 51.5

77 20.6 17.1 25.7





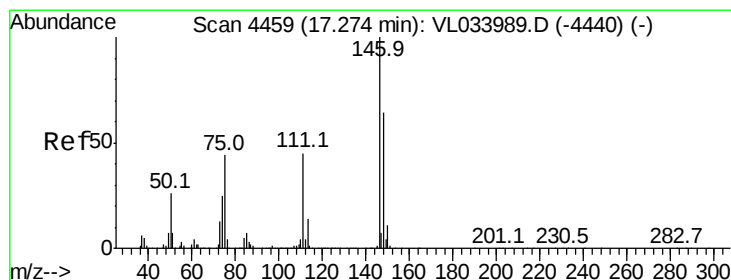
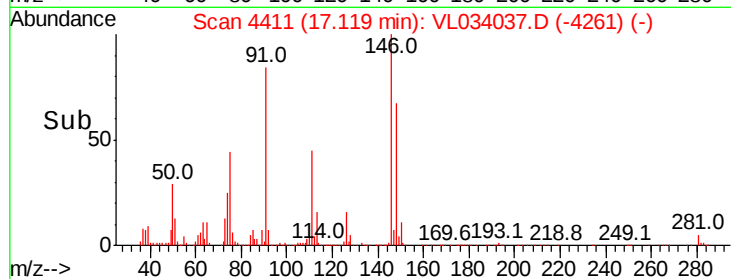
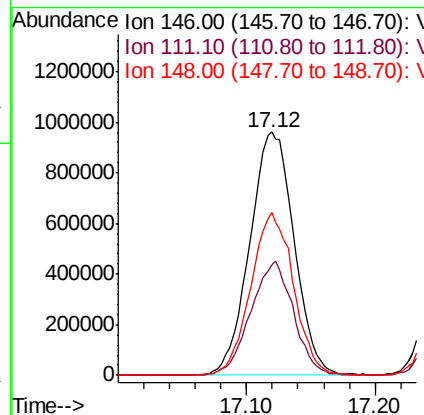
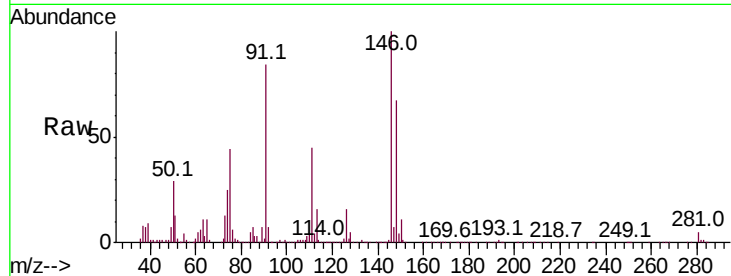
#75
 1,3-Dichlorobenzene
 Concen: 8.131 ppbv
 RT: 17.12 min Scan# 4411
 Delta R.T. -0.02 min
 Lab File: VL034037.D
 Acq: 17 Jul 2019 17:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0717ABS01

Tot Ion:146 Resp: 2297165
 Ion Ratio Lower Upper
 146 100
 111 45.4 22.3 66.9
 148 64.7 32.0 96.2

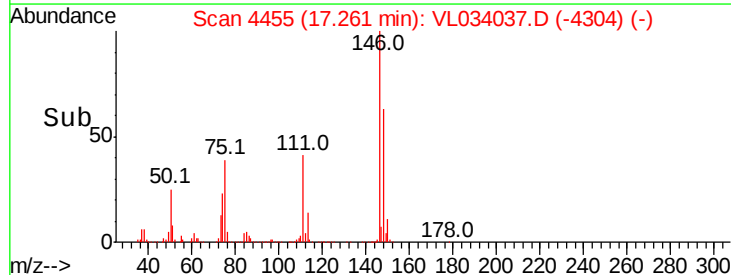
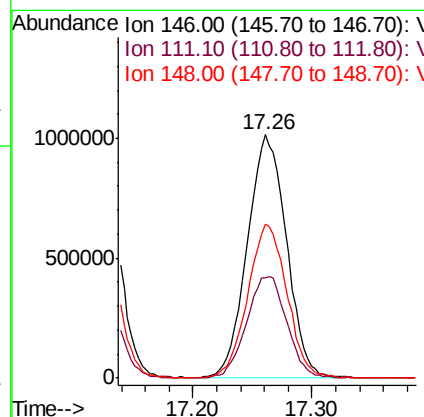
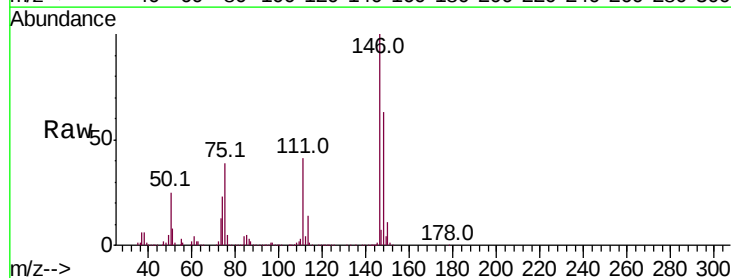
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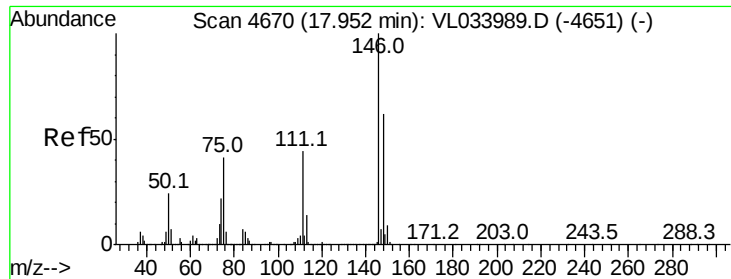
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#76
 1,4-Dichlorobenzene
 Concen: 8.620 ppbv
 RT: 17.26 min Scan# 4455
 Delta R.T. -0.01 min
 Lab File: VL034037.D
 Acq: 17 Jul 2019 17:54

Tgt Ion:146 Resp: 2293559
 Ion Ratio Lower Upper
 146 100
 111 43.4 21.9 65.5
 148 64.1 32.5 97.5





#77

1,2-Dichlorobenzene

Concen: 8.487 ppbv

RT: 17.94 min Scan# 4667

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

ClientSampleId :

VL0717ABS01

Tot Ion:146 Resp: 2220340

Ion Ratio Lower Upper

146 100

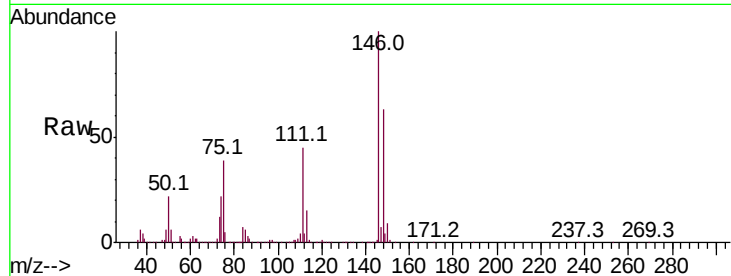
111 46.5 22.7 68.1

148 63.8 32.1 96.3

Manual Integrations
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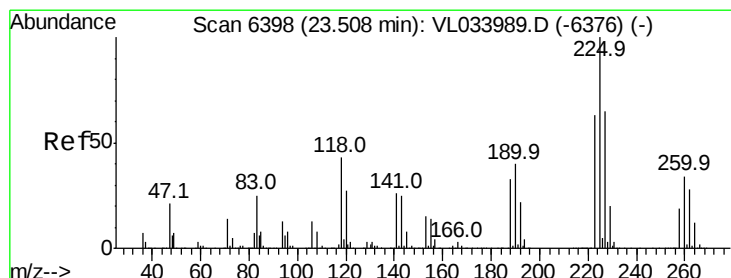
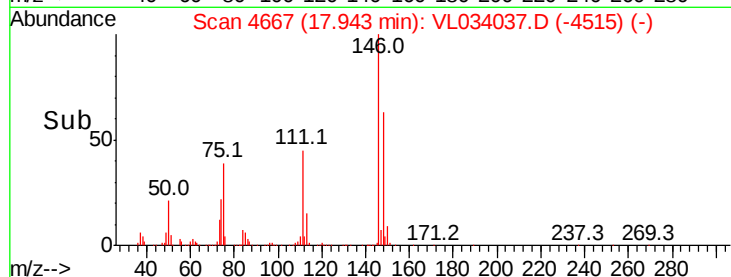
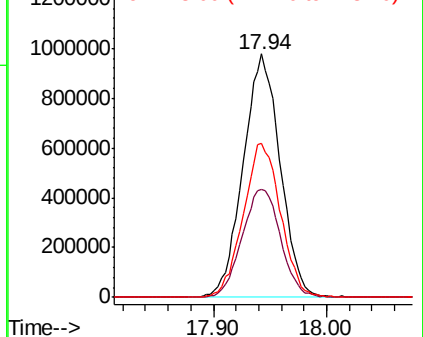


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 8.563 ppbv

RT: 23.50 min Scan# 6394

Delta R.T. -0.01 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

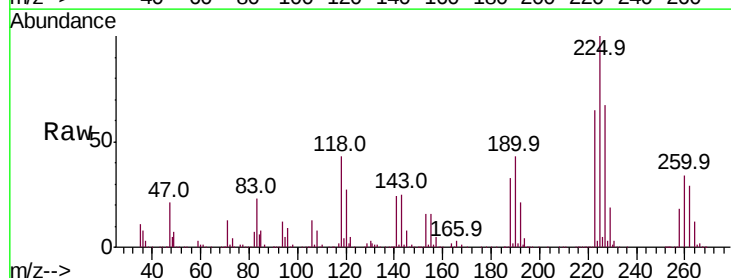
Tgt Ion:225 Resp: 1906207

Ion Ratio Lower Upper

225 100

223 62.5 51.5 77.3

227 64.5 52.1 78.1

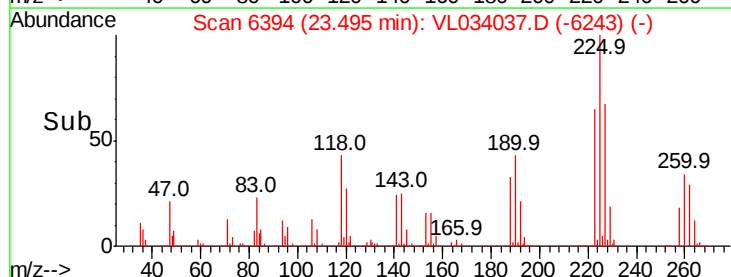
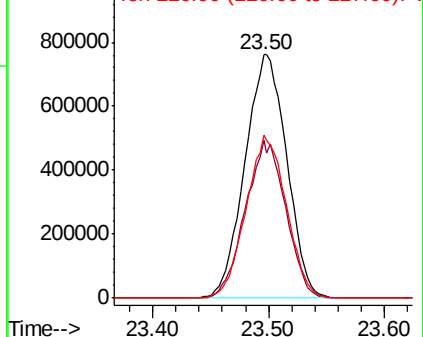


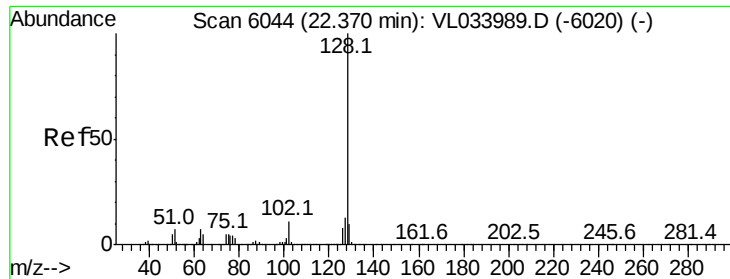
Abundance

Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 11.229 ppbv

RT: 22.35 min Scan# 6039

Delta R.T. -0.02 min

Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Instrument :

MSVOA_L

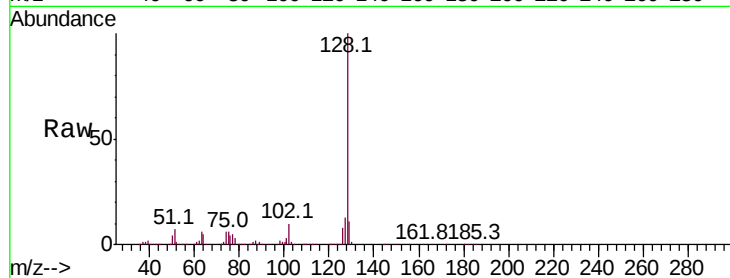
ClientSampleId :

VL0717ABS01

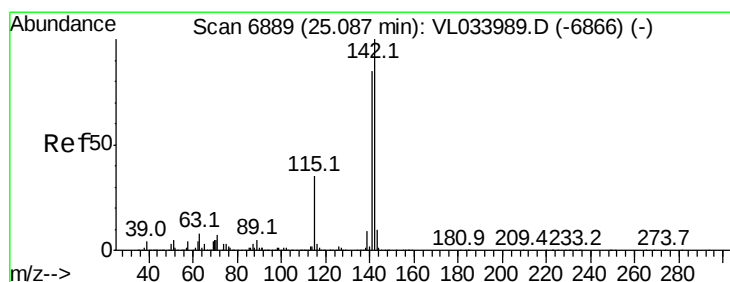
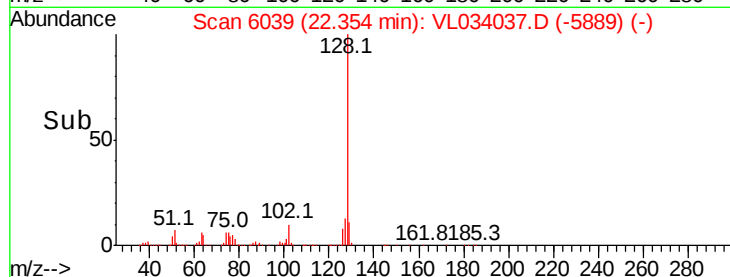
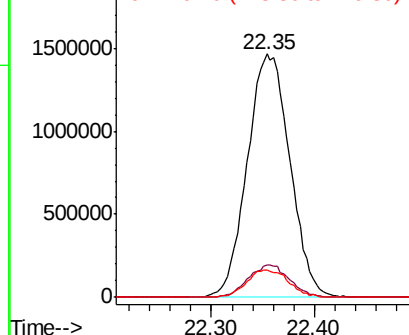
Tot Ion:	128	Resp:	4198683
Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.6	15.8
129	11.3	8.3	12.5

Manual Integrations
APPROVED

MMDadoda
7/19/2019 1:37:12 AM



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



#80

Naphthalene, 2-methyl-

Concen: 7.453 ppbv

RT: 25.07 min Scan# 6885

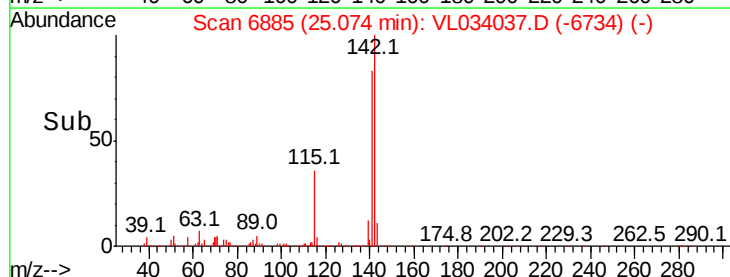
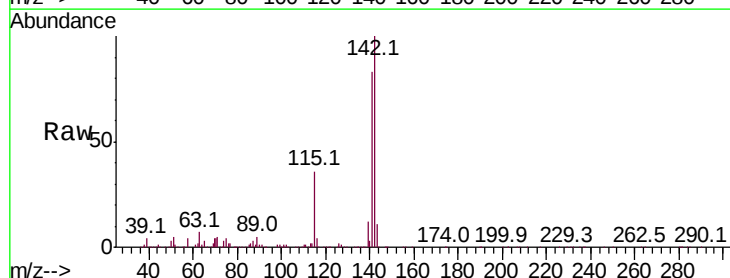
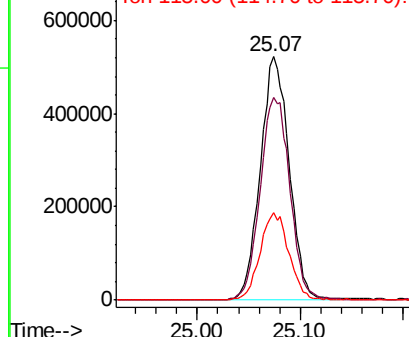
Delta R.T. -0.01 min

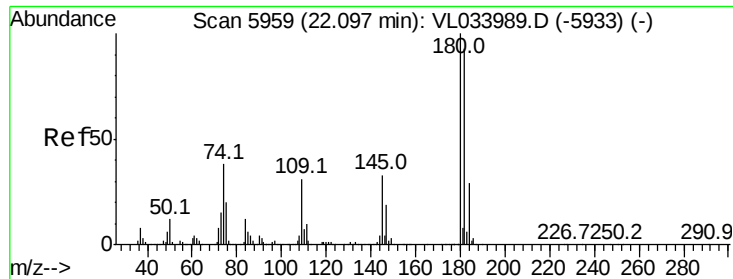
Lab File: VL034037.D

Acq: 17 Jul 2019 17:54

Tgt Ion:	142	Resp:	1014083
Ion	Ratio	Lower	Upper
142	100		
141	86.3	68.2	102.2
115	36.3	29.9	44.9

Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





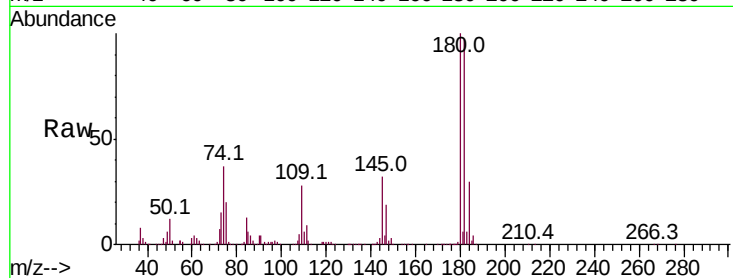
#81
 1,2,4-Trichlorobenzene
 Concen: 10.010 ppbv
 RT: 22.08 min Scan# 5955
 Delta R.T. -0.01 min
 Lab File: VL034037.D
 Acq: 17 Jul 2019 17:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0717ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.6	76.6	114.8
184	31.0	24.6	36.8

Manual Integrations
 APPROVED

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 7/19/2019 1:37:12 AM



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

