

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032019\
 Data File : VL033390.D
 Acq On : 20 Mar 2019 14:02
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 8:26:22 AM

Quant Time: Mar 21 16:35:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 1
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	750130	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1676269	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1832783m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1289343	9.49	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1233137	9.348	ppbv	99
3) Chlorodifluoromethane	3.01	51	915744	10.636	ppbv	98
4) Chloromethane	3.17	50	491782	10.548	ppbv	98
5) Vinyl Chloride	3.29	62	487508	10.136	ppbv	98
6) Bromomethane	3.51	94	303602	10.619	ppbv	99
7) Chloroethane	3.60	64	181700	10.811	ppbv	100
8) Dichlorotetrafluoroethane	3.22	85	1231484	10.966	ppbv	100
9) Propene	3.04	41	388860	10.118	ppbv	100
10) Heptane	8.25	43	1041201	10.922	ppbv	100
11) Trichlorofluoromethane	4.00	101	1382576	10.525	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.55	101	922710	10.587	ppbv	99
13) Ethanol	3.65	45	85524m	4.668	ppbv	
14) Bromoethene	3.79	108	385652	10.616	ppbv	100
15) Acetone	3.90	43	844642	7.244	ppbv	100
16) 1,3-Butadiene	3.36	39	436016	11.512	ppbv	93
17) tert-Butyl alcohol	4.35	59	170382	10.383	ppbv	99
18) 1,1-Dichloroethene	4.35	96	408283	10.245	ppbv	97
19) Isopropyl Alcohol	4.02	45	560988	10.114	ppbv #	99
20) Methylene Chloride	4.41	84	343874	9.042	ppbv	96
21) Allyl Chloride	4.47	41	618374	10.932	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	420423	10.886	ppbv	98
23) Vinyl Acetate	5.15	43	1394193	10.333	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1026387	10.533	ppbv	100
25) Ethyl Acetate	5.77	43	1746821	10.305	ppbv	100
26) Hexane	5.78	57	763238	10.072	ppbv	98
27) Carbon Disulfide	4.62	76	1016067	11.647	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1181844	10.500	ppbv	100
29) Chloroform	5.85	83	1324663	10.676	ppbv	99
30) Cyclohexane	7.25	84	641659	10.561	ppbv	100
31) cis-1,2-Dichloroethene	5.64	61	804825	10.622	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1309868	10.752	ppbv	99
34) 2-Butanone	5.33	43	1101453	10.005	ppbv	98
35) Carbon Tetrachloride	7.13	117	1386768	11.735	ppbv	100
36) Benzene	7.00	78	1576483	10.509	ppbv	98
37) 1,2-Dichloroethane	6.41	62	1019723	10.750	ppbv	100
38) Trichloroethene	7.96	130	627065	11.046	ppbv	98
39) 1,2-Dichloropropane	7.74	63	605635	10.780	ppbv	96
40) 1,4-Dioxane	7.95	88	201787	10.200	ppbv	91
41) Tetrahydrofuran	6.14	42	633976	10.792	ppbv	99
42) Bromodichloromethane	7.91	83	1435997	11.291	ppbv	99
43) Methyl Methacrylate	8.14	69	652638	11.173	ppbv	99

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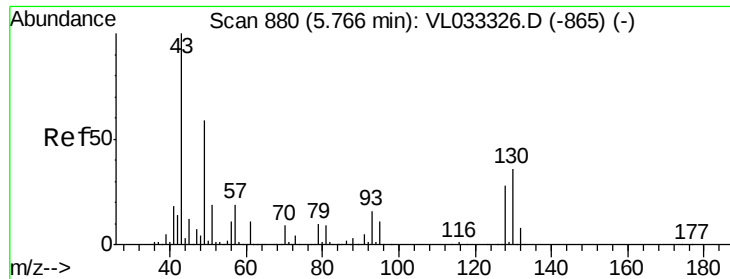
Manual Integrations
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Quant Time: Mar 21 16:35:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 1
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2715554	10.929	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	887206	12.302	ppbv	100
46) cis-1,3-Dichloropropene	8.83	75	998554	11.759	ppbv	100
47) 1,1,2-Trichloroethane	9.62	97	671897	10.825	ppbv	94
48) Dibromochloromethane	10.45	129	1231205	11.827	ppbv	100
49) Bromoform	13.20	173	1130500	11.448	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	1692919	10.887	ppbv	99
51) 2-Hexanone	10.27	43	1323064	11.029	ppbv #	98
52) Tetrachloroethene	11.37	164	620122	9.922	ppbv	98
53) Toluene	9.95	91	1919040	11.258	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1106944	10.549	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.28	131	886953	10.818	ppbv	98
57) Chlorobenzene	12.30	112	1476482	10.172	ppbv	97
58) Ethyl Benzene	12.86	91	2716792	10.479	ppbv	99
59) m/p-Xylene	13.15	91	4635499m	20.804	ppbv	
60) o-Xylene	13.85	91	2306753	10.612	ppbv	99
61) Styrene	13.69	104	1652656	10.859	ppbv	99
62) Isopropylbenzene	14.83	105	3132179	10.365	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1587827	10.105	ppbv	100
64) n-propylbenzene	15.72	120	803731	10.510	ppbv	99
65) tert-Butylbenzene	16.91	119	2870541	10.551	ppbv	100
66) Benzyl Chloride	17.16	91	1438387	12.793	ppbv	99
67) sec-Butylbenzene	17.46	105	4058698	10.528	ppbv	99
69) p-Isopropyltoluene	17.82	119	3348887	10.632	ppbv	99
70) n-Butylbenzene	18.71	91	3517443	10.473	ppbv	100
71) 2-Chlorotoluene	15.62	91	2420949	10.291	ppbv	100
72) 4-Ethyltoluene	16.00	105	2601385	10.538	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	2510105	10.438	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	2625194	10.307	ppbv	94
75) 1,3-Dichlorobenzene	17.17	146	1504507	10.023	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1494757	10.285	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1468428	10.329	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	818007	9.597	ppbv	99
79) Naphthalene	22.41	128	2342660	9.545	ppbv	98
80) Naphthalene, 2-methyl-	25.11	142	919765	7.903	ppbv	99
81) 1,2,4-Trichlorobenzene	22.13	180	1224555	9.784	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.01 min

Lab File: VL033390.D

Acq: 20 Mar 2019 14:02

Instrument :

MSVOA_L

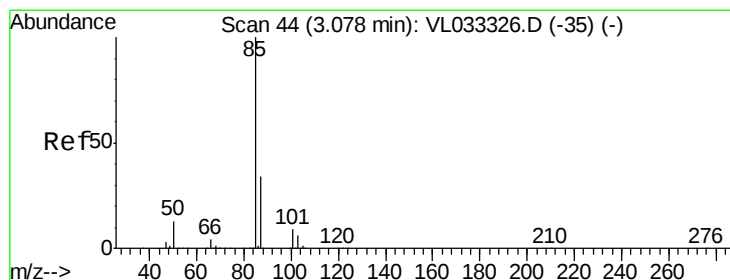
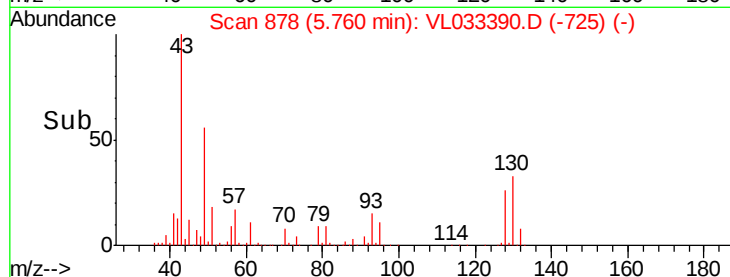
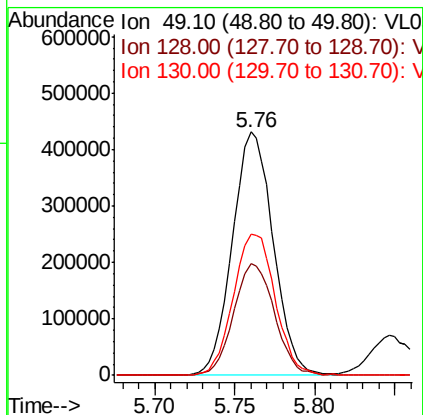
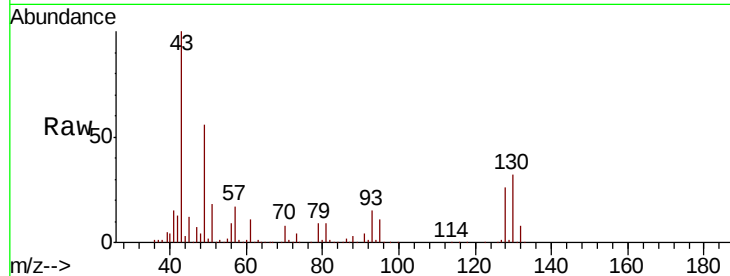
ClientSampleId :

VSTDCCC010

Tot Ion:	49	Resp:	750130
Ion	Ratio	Lower	Upper
49	100		
128	45.9	23.5	70.6
130	59.6	30.1	90.3

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#2

Dichlorodifluoromethane

Concen: 9.348 ppbv

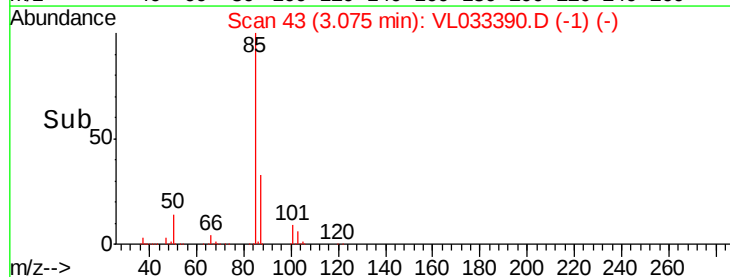
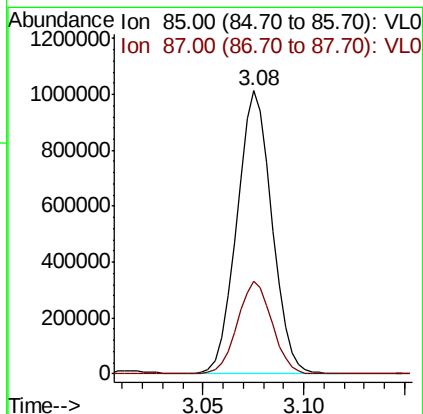
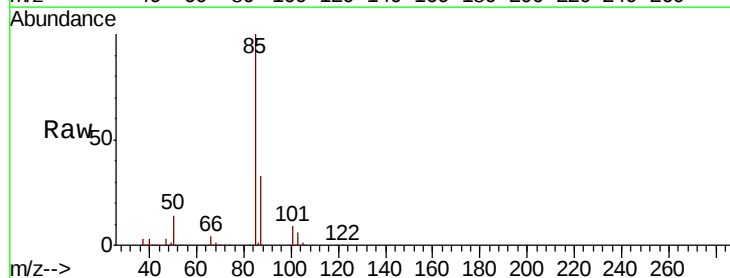
RT: 3.08 min Scan# 43

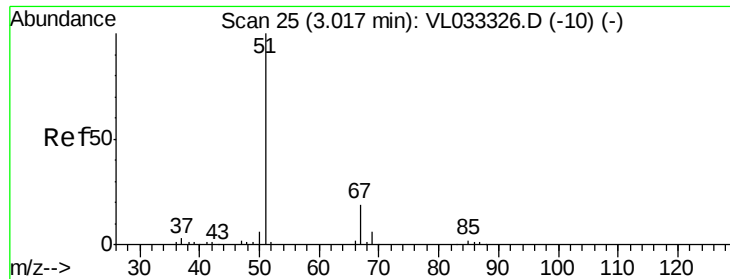
Delta R.T. -0.00 min

Lab File: VL033390.D

Acq: 20 Mar 2019 14:02

Tgt Ion:	85	Resp:	1233137
Ion	Ratio	Lower	Upper
85	100		
87	32.9	26.9	40.3





#3

Chlorodifluoromethane

Concen: 10.636 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033390.D

Acq: 20 Mar 2019 14:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 51 Resp: 915744

Ion Ratio Lower Upper

51 100

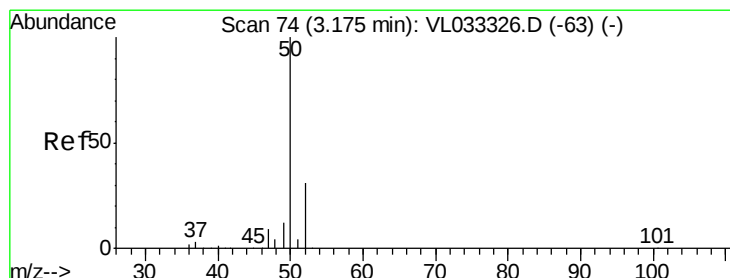
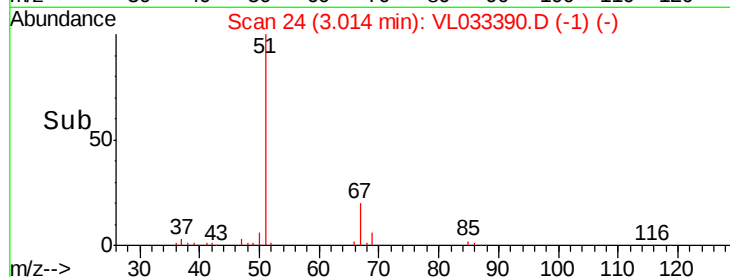
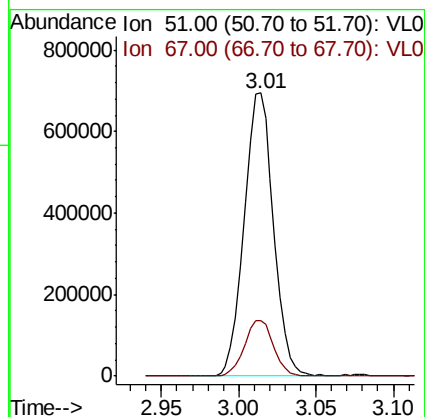
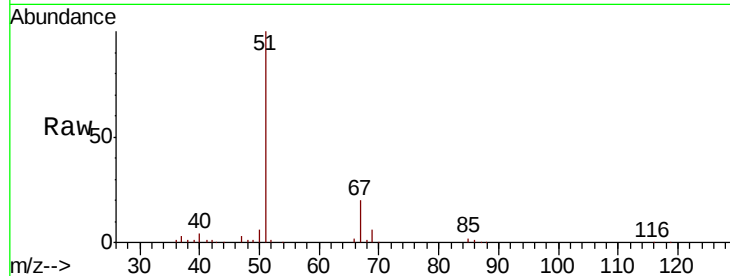
67 19.5 14.9 22.3

Manual Integrations

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#4

Chloromethane

Concen: 10.548 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.01 min

Lab File: VL033390.D

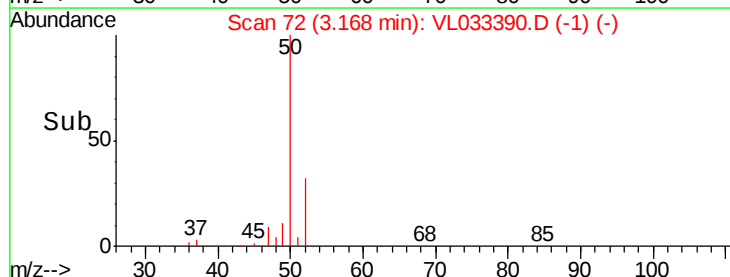
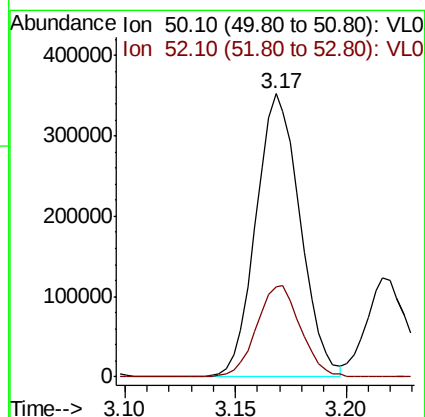
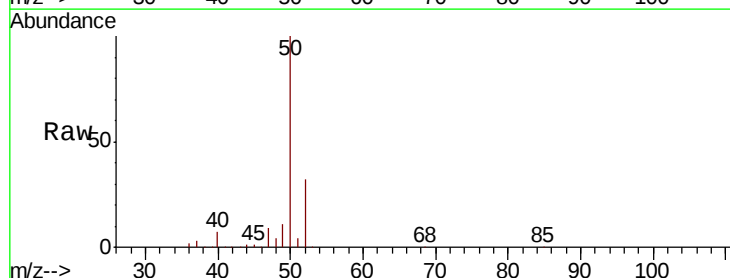
Acq: 20 Mar 2019 14:02

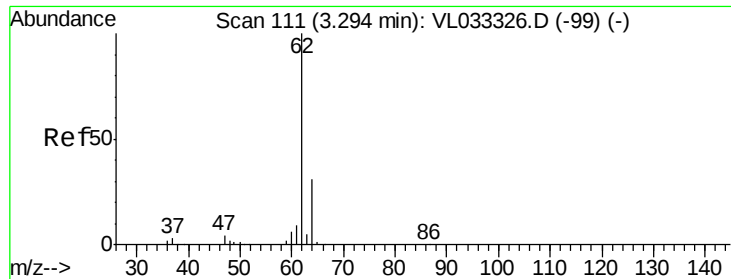
Tgt Ion: 50 Resp: 491782

Ion Ratio Lower Upper

50 100

52 32.2 25.0 37.6





#5

Vinyl Chloride

Concen: 10.136 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033390.D

Acq: 20 Mar 2019 14:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 487508

Ion Ratio Lower Upper

62 100

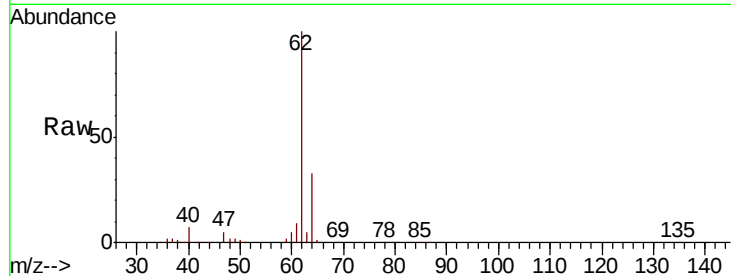
64 32.7 25.0 37.6

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.29

400000

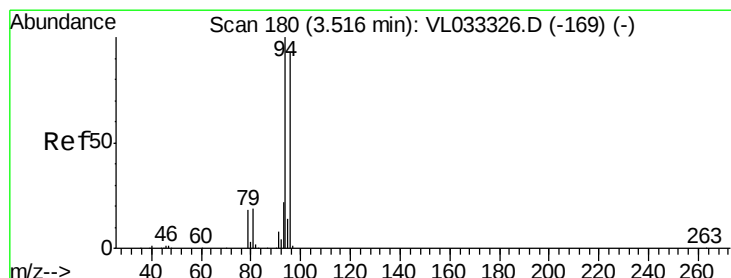
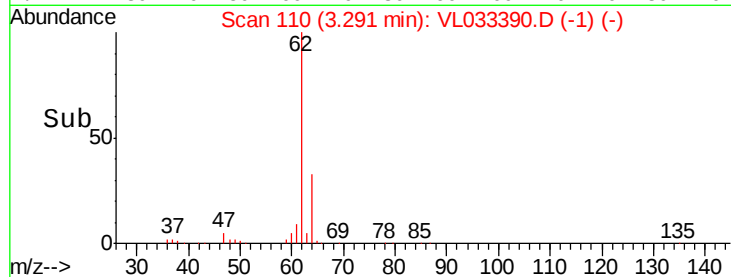
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 10.619 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033390.D

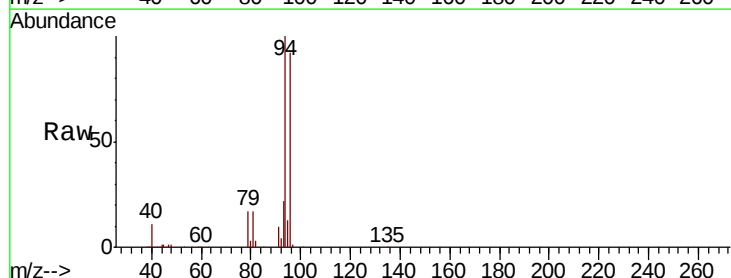
Acq: 20 Mar 2019 14:02

Tgt Ion: 94 Resp: 303602

Ion Ratio Lower Upper

94 100

96 92.2 74.6 111.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

250000

200000

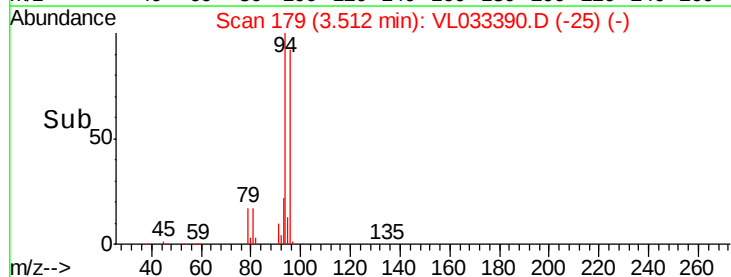
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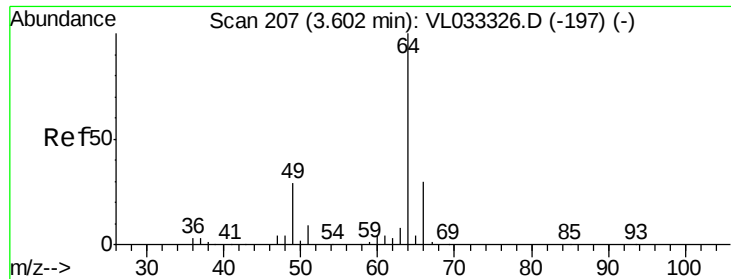
100000

50000

0

Time-->





#7

Chloroethane

Concen: 10.811 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033390.D

Acq: 20 Mar 2019 14:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 181700

Ion Ratio Lower Upper

64 100

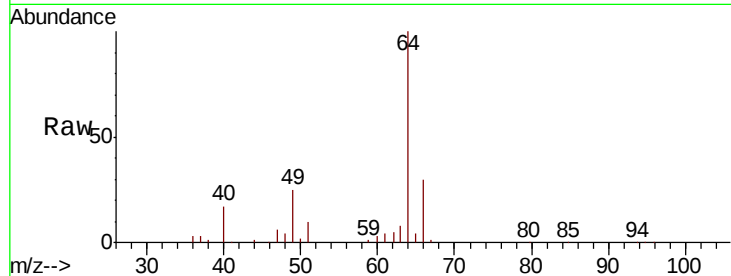
66 29.8 24.0 36.0

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

150000

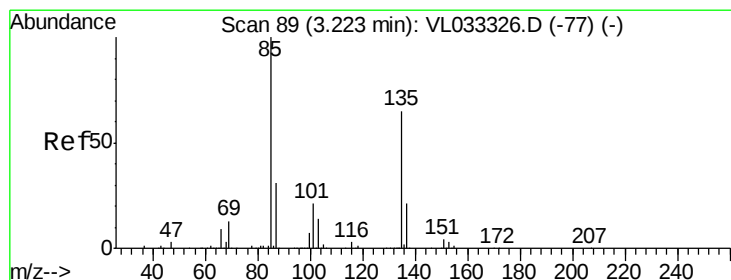
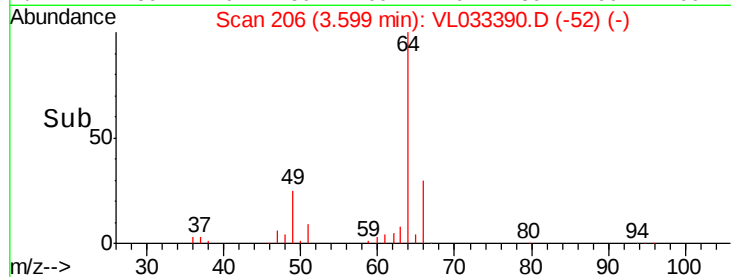
100000

50000

0

3.55 3.60 3.65

Time-->



#8

Dichlorotetrafluoroethane

Concen: 10.966 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033390.D

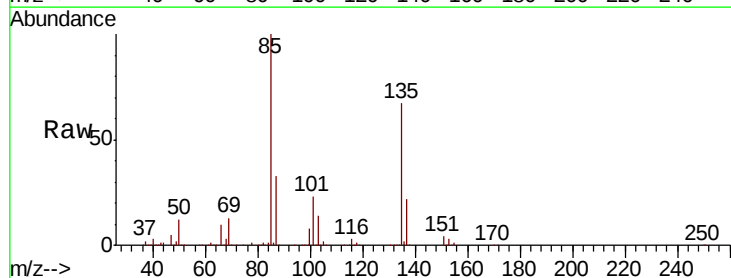
Acq: 20 Mar 2019 14:02

Tgt Ion: 85 Resp: 1231484

Ion Ratio Lower Upper

85 100

135 66.5 53.4 80.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1000000

800000

600000

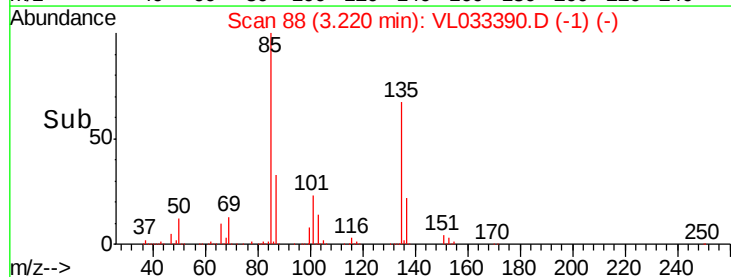
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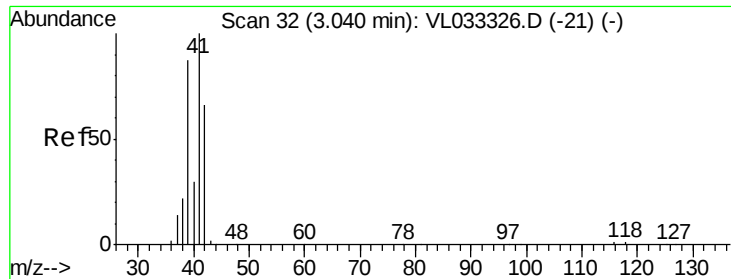
200000

0

3.15 3.20 3.25 3.30

Time-->





#9

Propene

Concen: 10.118 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033390.D

Acq: 20 Mar 2019 14:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 388860

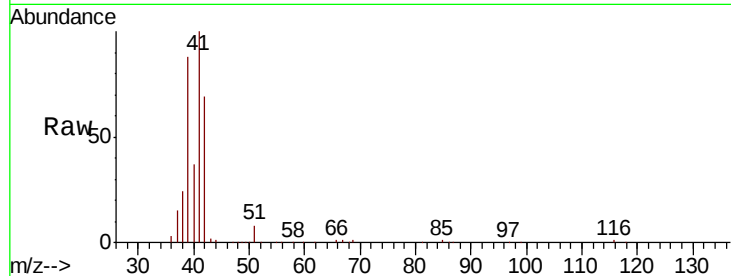
Ion Ratio Lower Upper

41 100

42 68.7 55.2 82.8

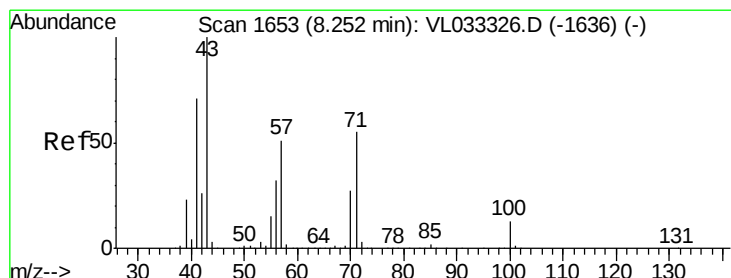
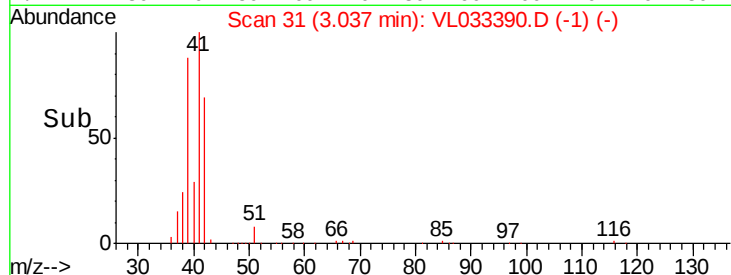
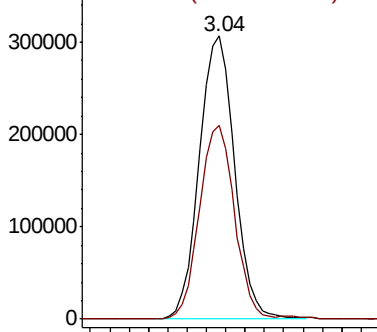
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3/25/2019 8:26:22 AM



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 10.922 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.01 min

Lab File: VL033390.D

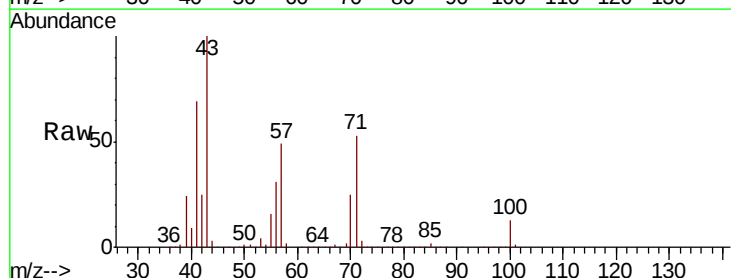
Acq: 20 Mar 2019 14:02

Tgt Ion: 43 Resp: 1041201

Ion Ratio Lower Upper

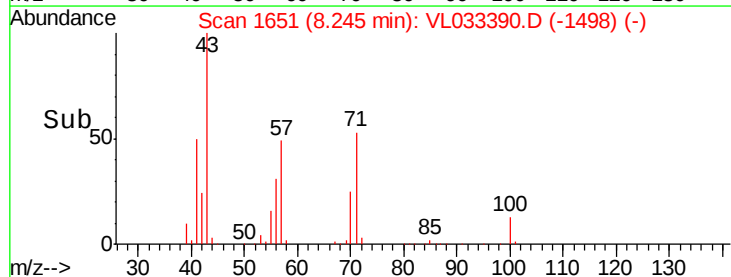
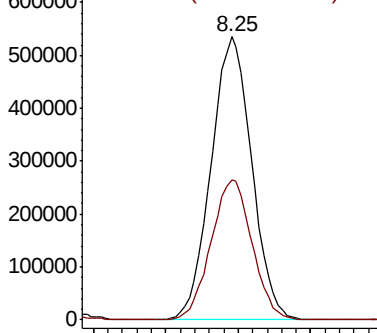
43 100

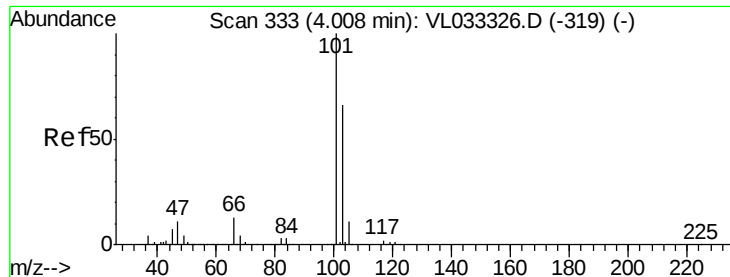
57 50.3 40.4 60.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





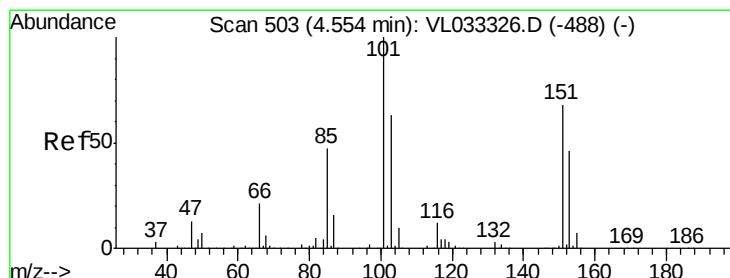
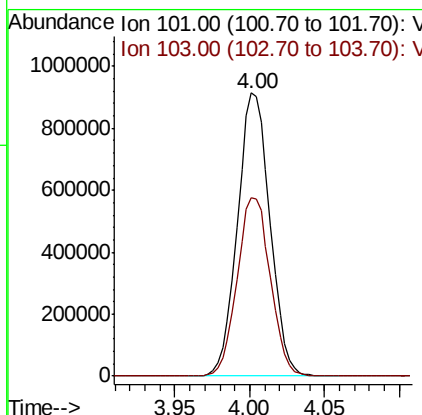
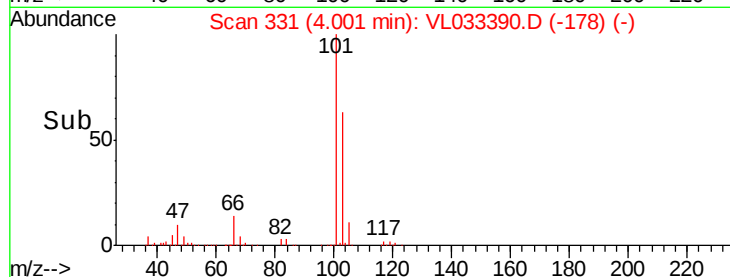
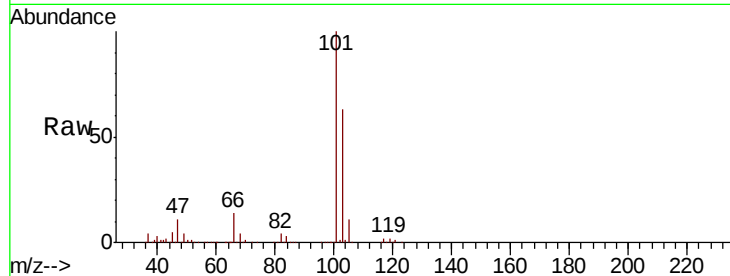
#11
 Trichlorofluoromethane
 Concen: 10.525 ppbv
 RT: 4.00 min Scan# 331
 Delta R.T. -0.01 min
 Lab File: VL033390.D
 Acq: 20 Mar 2019 14:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:101 Resp: 1382576
 Ion Ratio Lower Upper
 101 100
 103 63.0 52.9 79.3

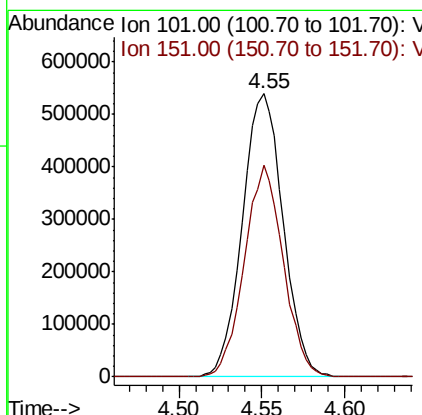
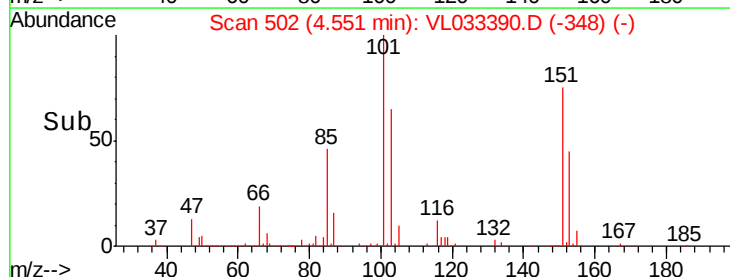
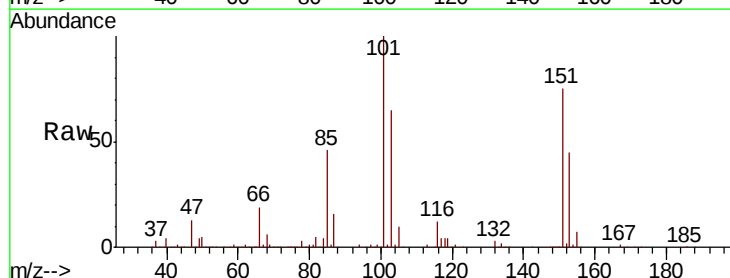
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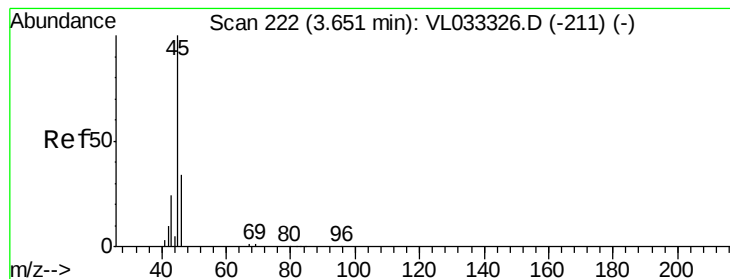
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 10.587 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VL033390.D
 Acq: 20 Mar 2019 14:02

Tgt Ion:101 Resp: 922710
 Ion Ratio Lower Upper
 101 100
 151 71.4 56.3 84.5





#13

Ethanol

Concen: 4.668 ppbv m

RT: 3.65 min Scan# 222

Delta R.T. -0.00 min

Lab File: VL033390.D

Acq: 20 Mar 2019 14:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 85524

Ion Ratio Lower Upper

45 100

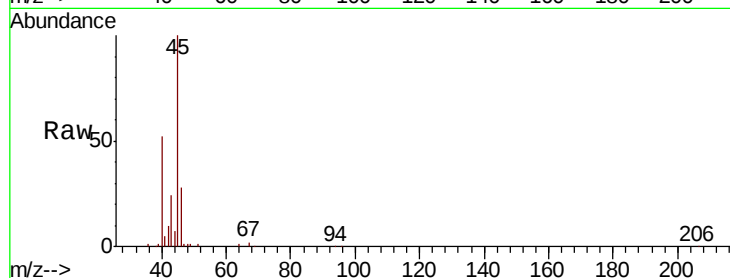
46 33.9 14.9 59.7

Manual Integrations

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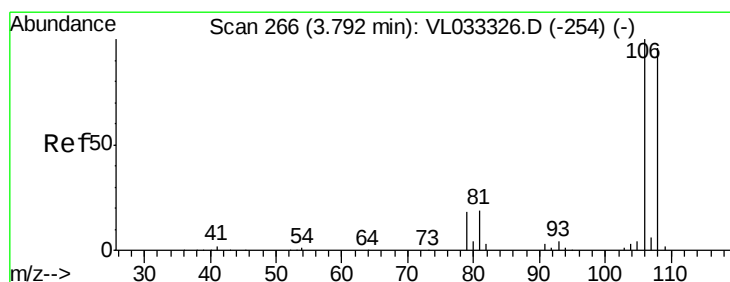
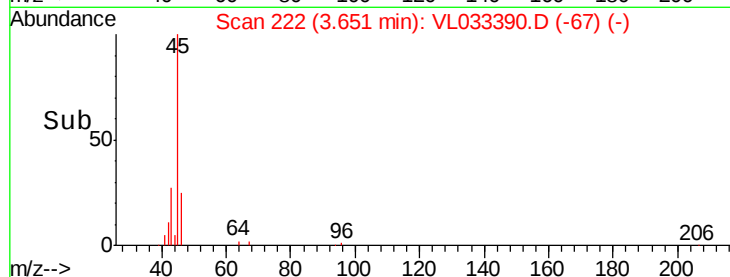
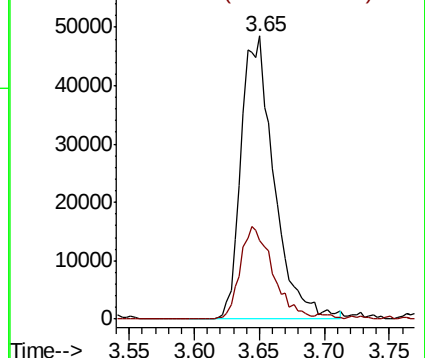
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 10.616 ppbv

RT: 3.79 min Scan# 264

Delta R.T. -0.01 min

Lab File: VL033390.D

Acq: 20 Mar 2019 14:02

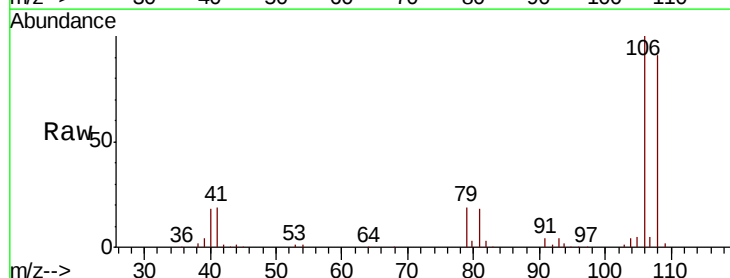
Tgt Ion: 108 Resp: 385652

Ion Ratio Lower Upper

108 100

106 107.3 86.2 129.2

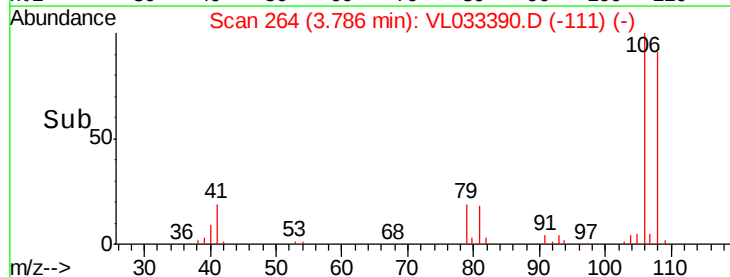
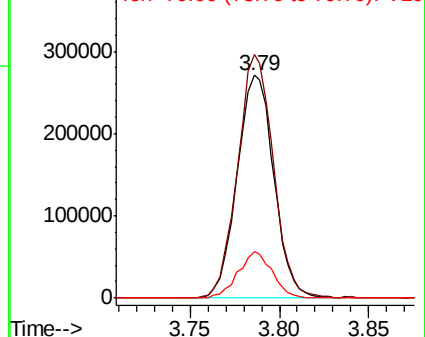
79 19.7 15.4 23.2

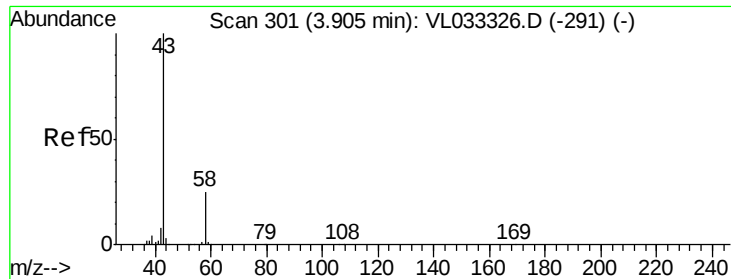


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 7.244 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.01 min

Lab File: VL033390.D

Acq: 20 Mar 2019 14:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 844642

Ion Ratio Lower Upper

43 100

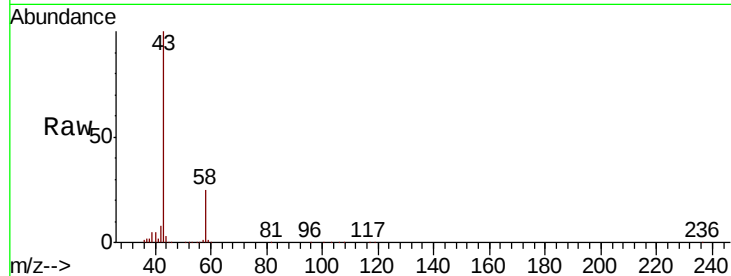
58 25.3 20.4 30.6

Manual Integrations

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

600000

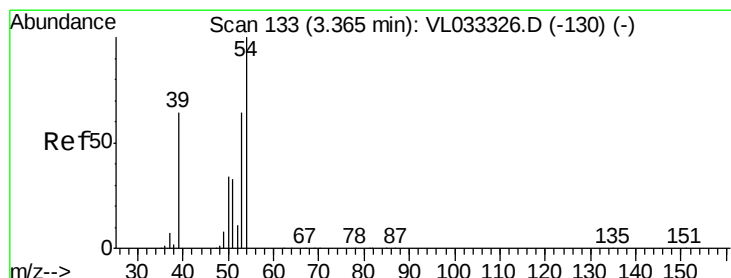
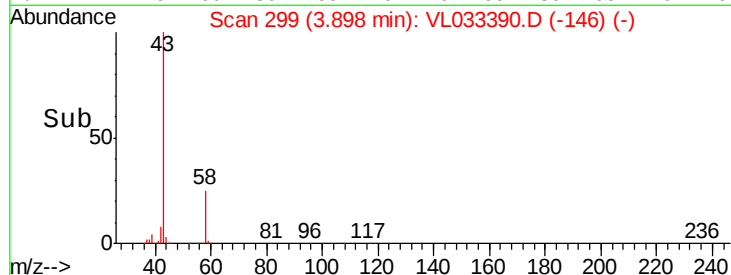
400000

200000

0

3.85 3.90 3.95

Time-->



#16

1,3-Butadiene

Concen: 11.512 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033390.D

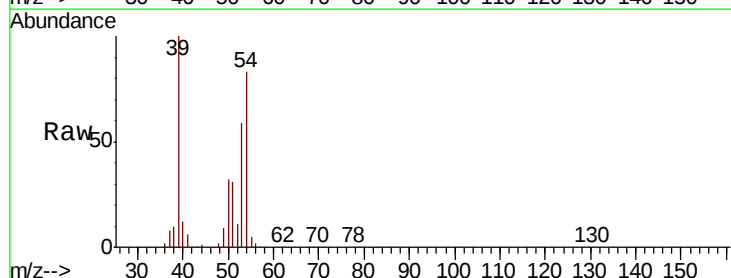
Acq: 20 Mar 2019 14:02

Tgt Ion: 39 Resp: 436016

Ion Ratio Lower Upper

39 100

54 88.8 76.8 115.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

400000

300000

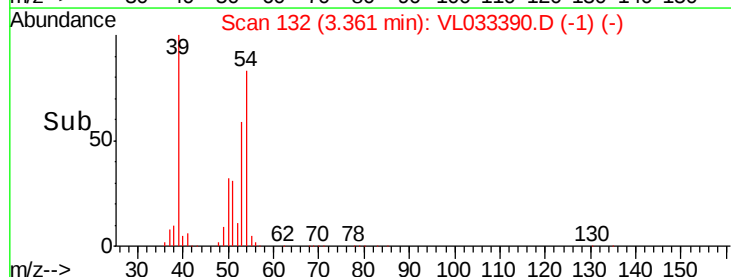
200000

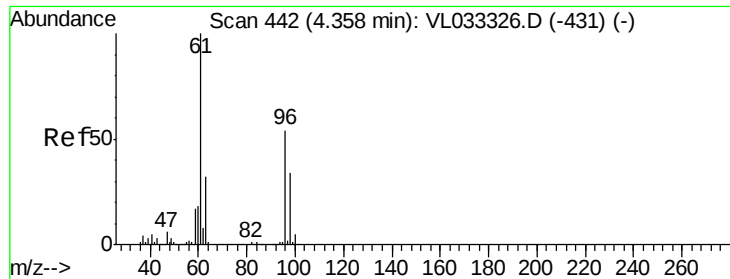
100000

0

3.34 3.36 3.38 3.40

Time-->





#17

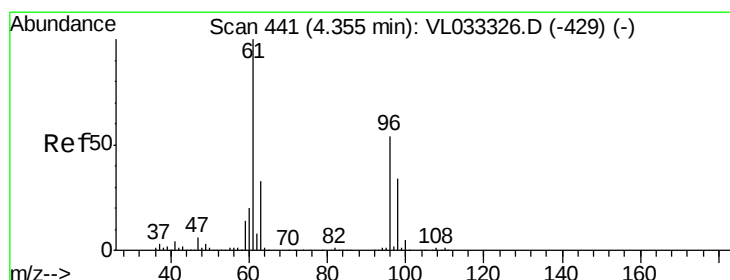
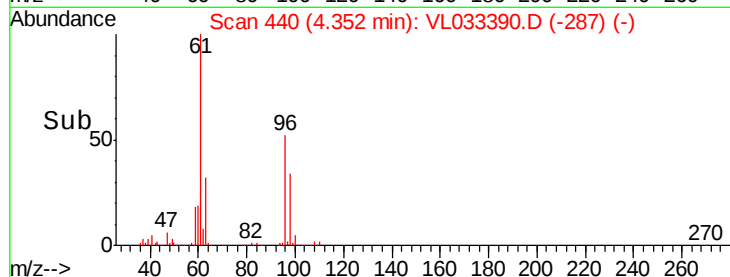
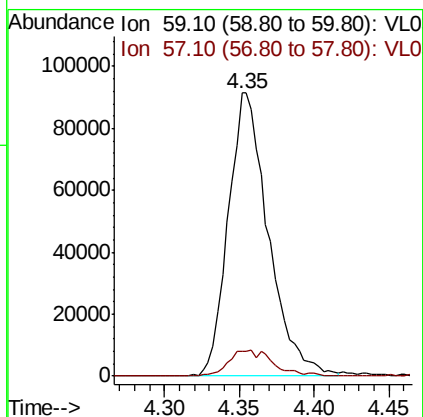
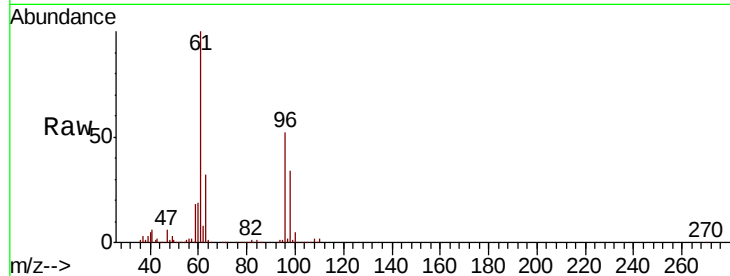
tert-Butyl alcohol
Concen: 10.383 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.01 min
Lab File: VL033390.D
Acq: 20 Mar 2019 14:02

Instrument :
MSVOA_L
ClientSampled :
VSTDCCC010

Tot Ion: 59 Resp: 170382
Ion Ratio Lower Upper
59 100
57 10.0 7.7 11.5

Manual Integrations
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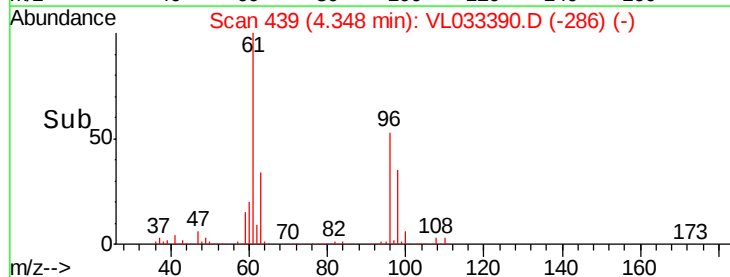
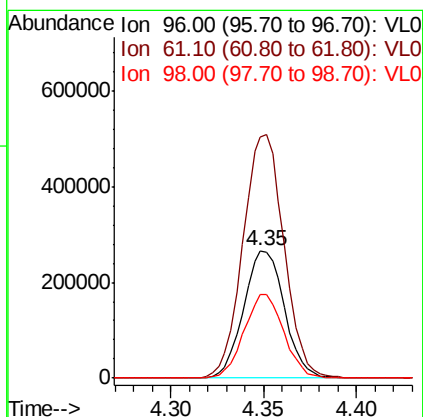
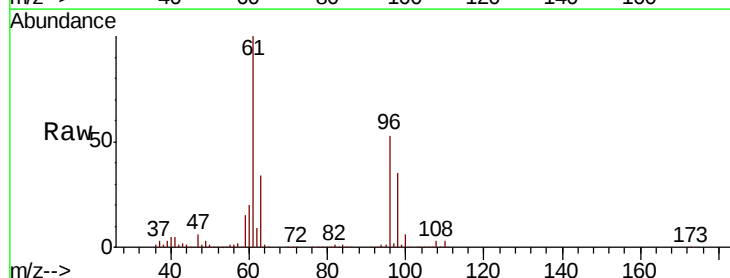
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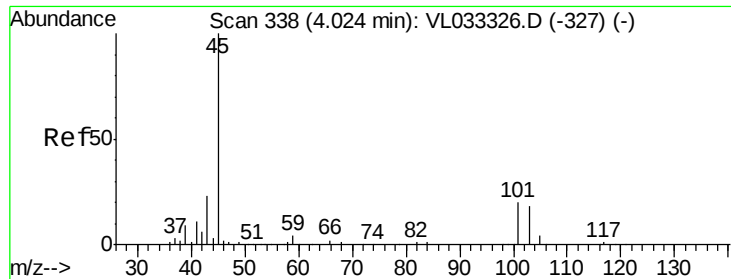


#18

1,1-Dichloroethene
Concen: 10.245 ppbv
RT: 4.35 min Scan# 439
Delta R.T. -0.01 min
Lab File: VL033390.D
Acq: 20 Mar 2019 14:02

Tgt Ion: 96 Resp: 408283
Ion Ratio Lower Upper
96 100
61 189.7 148.6 222.8
98 66.1 50.3 75.5





#19

Isopropyl Alcohol

Concen: 10.114 ppbv

RT: 4.02 min Scan# 337

Delta R.T. -0.00 min

Lab File: VL033390.D

Acq: 20 Mar 2019 14:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 560988

Ion Ratio Lower Upper

45 100

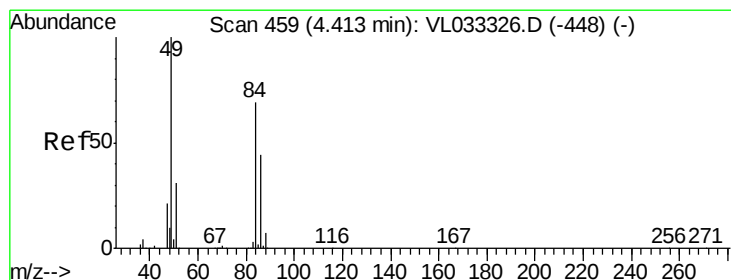
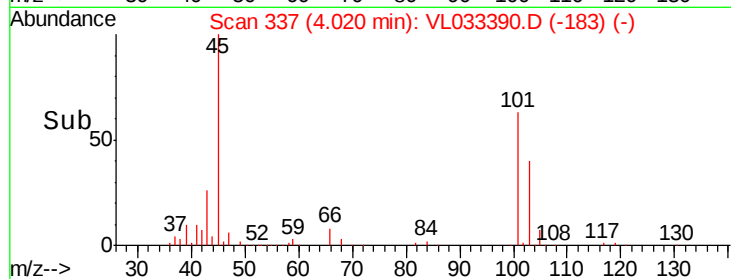
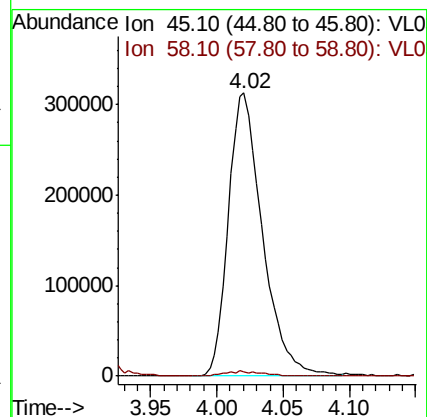
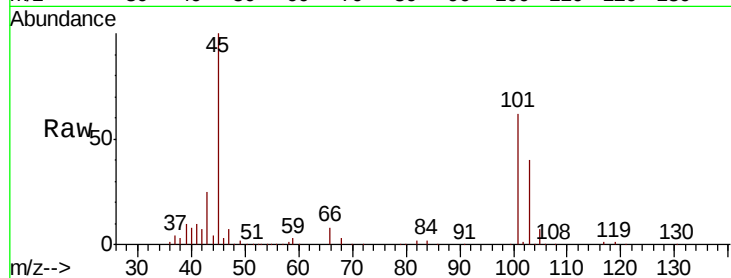
58 2.4 1.5 2.3#

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#20

Methylene Chloride

Concen: 9.042 ppbv

RT: 4.41 min Scan# 458

Delta R.T. -0.00 min

Lab File: VL033390.D

Acq: 20 Mar 2019 14:02

Tgt Ion: 84 Resp: 343874

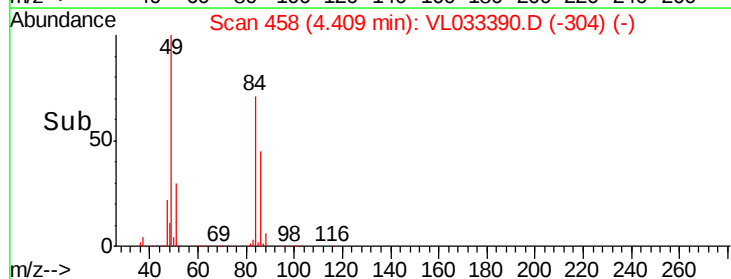
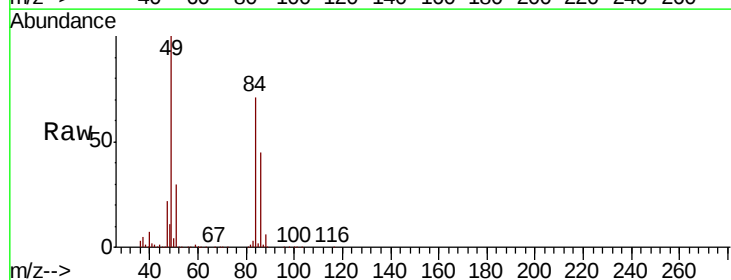
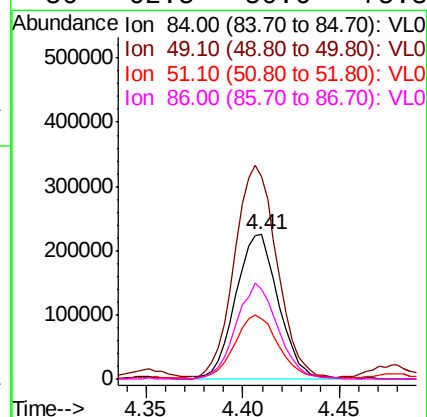
Ion Ratio Lower Upper

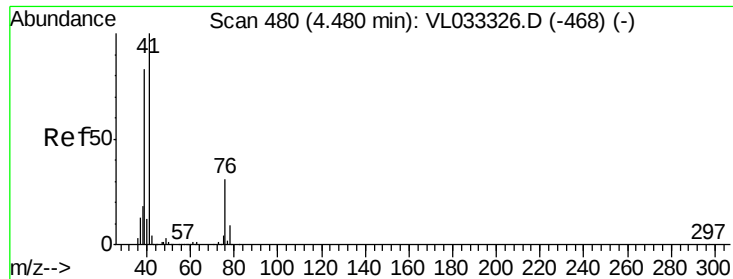
84 100

49 139.4 115.4 173.0

51 40.9 35.8 53.6

86 62.5 50.6 75.8





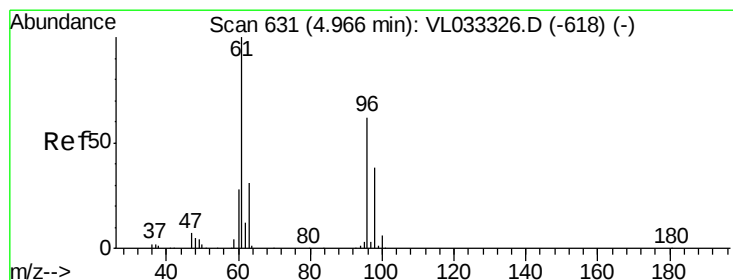
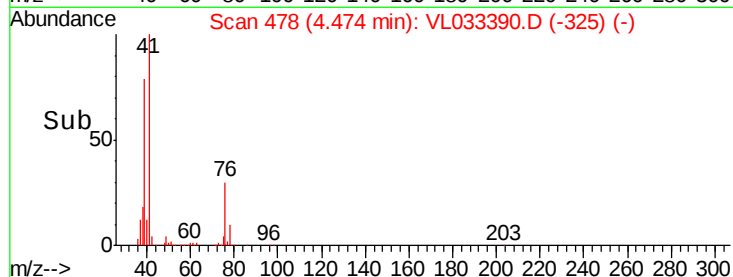
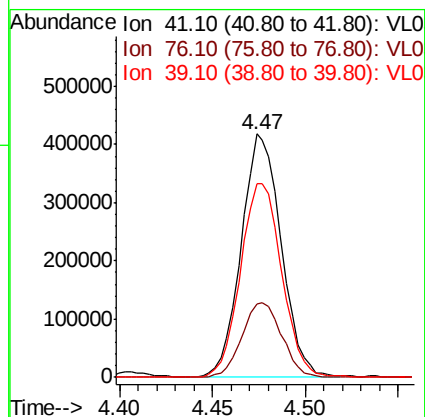
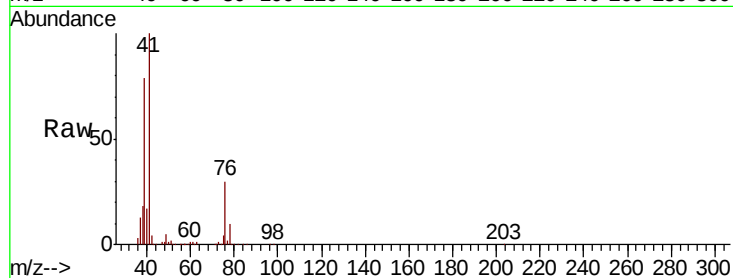
#21
Allvl Chloride
Concen: 10.932 ppbv
RT: 4.47 min Scan# 478
Delta R.T. -0.01 min
Lab File: VL033390.D
Acq: 20 Mar 2019 14:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.9	25.0	37.4
39	82.9	65.9	98.9

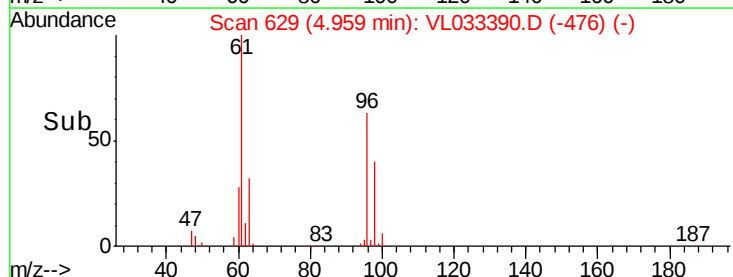
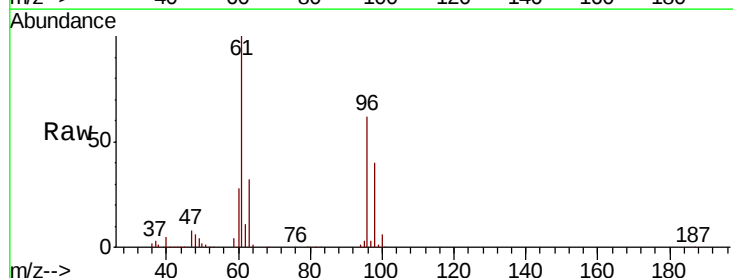
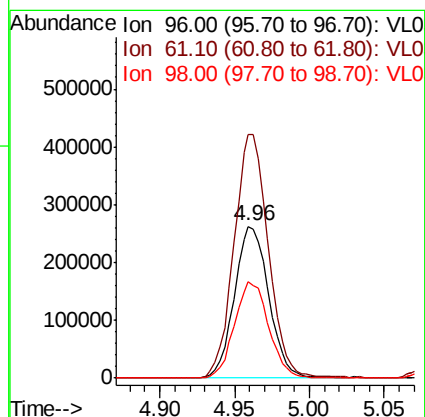
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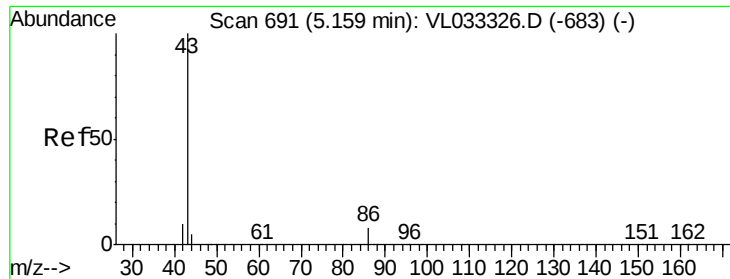
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#22
trans-1,2-Dichloroethene
Concen: 10.886 ppbv
RT: 4.96 min Scan# 629
Delta R.T. -0.01 min
Lab File: VL033390.D
Acq: 20 Mar 2019 14:02

Tgt Ion	Ratio	Lower	Upper
96	100		
61	160.3	130.0	195.0
98	63.4	50.0	75.0





#23

Vinyl Acetate

Concen: 10.333 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.01 min

Lab File: VL033390.D

Acq: 20 Mar 2019 14:02

Instrument :

MSVOA_L

ClientSampleID :

VSTDCCC010

Tot Ion: 43 Resp: 1394193

Ion Ratio Lower Upper

43 100

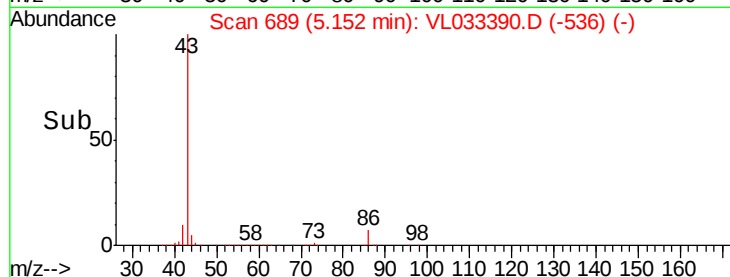
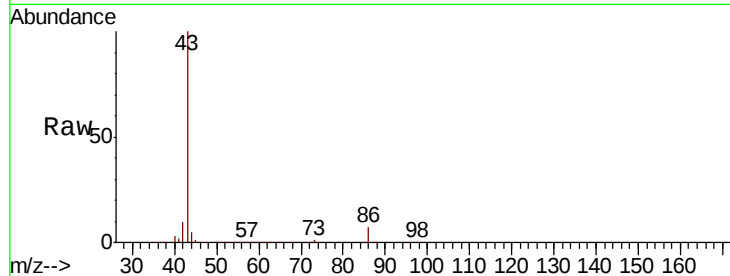
86 7.2 6.2 9.2

42 9.9 8.1 12.1

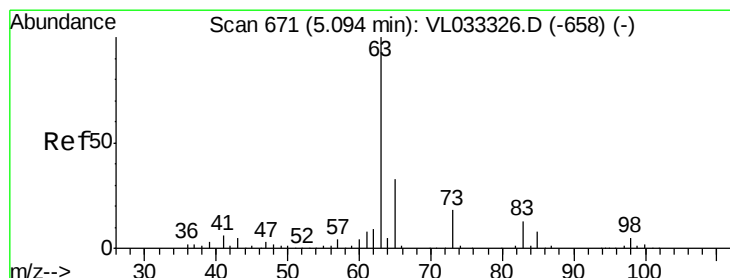
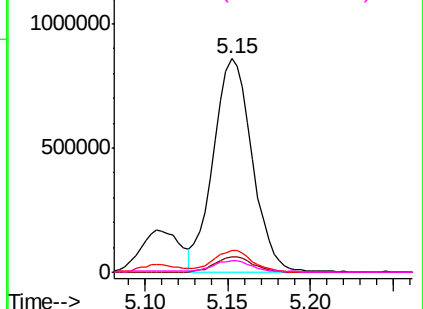
44 5.1 4.1 6.1

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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: 10.533 ppbv

RT: 5.09 min Scan# 670

Delta R.T. -0.00 min

Lab File: VL033390.D

Acq: 20 Mar 2019 14:02

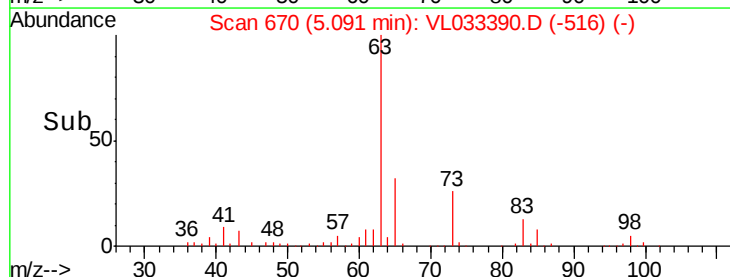
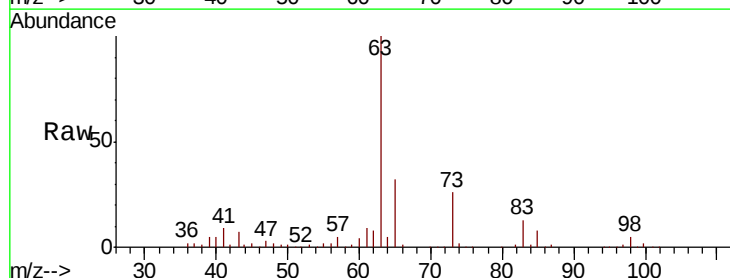
Tgt Ion: 63 Resp: 1026387

Ion Ratio Lower Upper

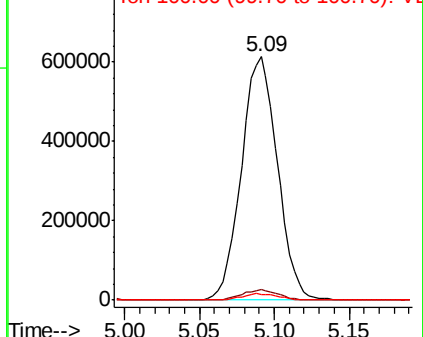
63 100

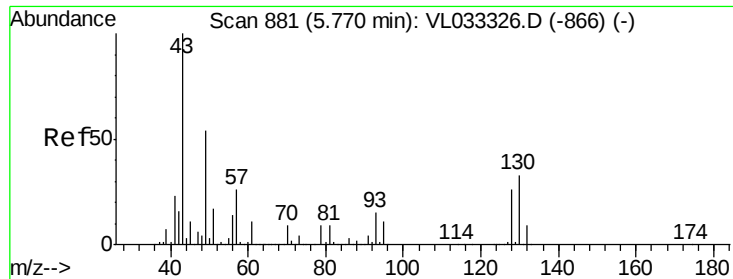
98 4.6 2.4 7.1

100 2.5 1.3 3.8



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





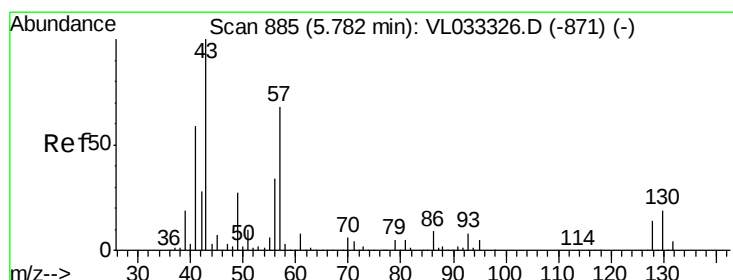
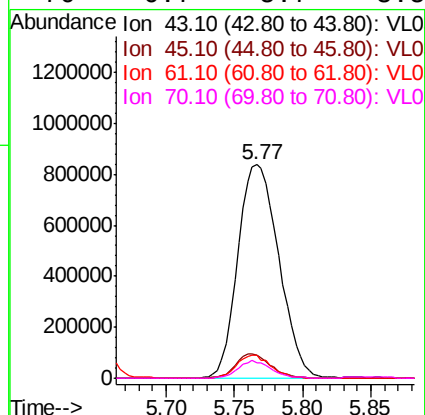
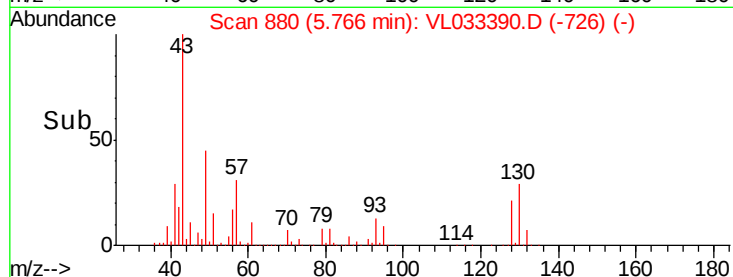
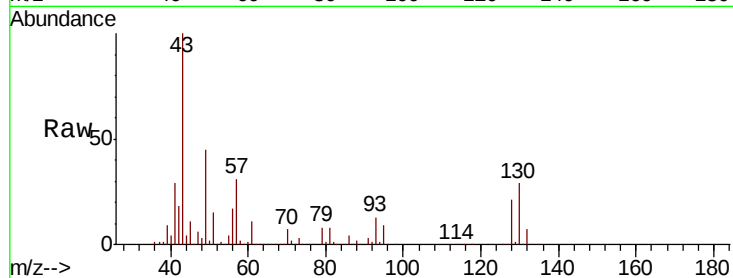
#25
Ethyl Acetate
Concen: 10.305 ppbv
RT: 5.77 min Scan# 880
Delta R.T. -0.00 min
Lab File: VL033390.D
Acq: 20 Mar 2019 14:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	43	Resp	1746821
Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.9	11.9
61	9.3	7.4	11.2
70	6.7	5.7	8.5

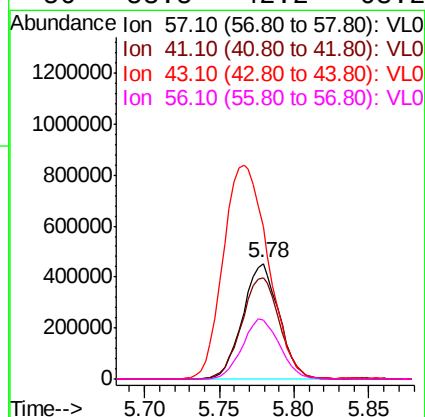
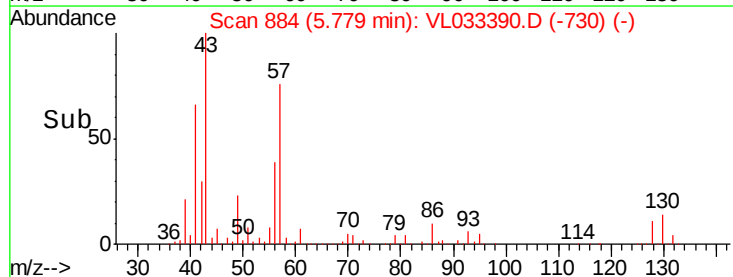
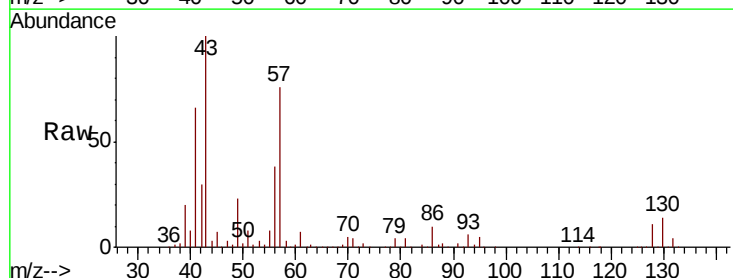
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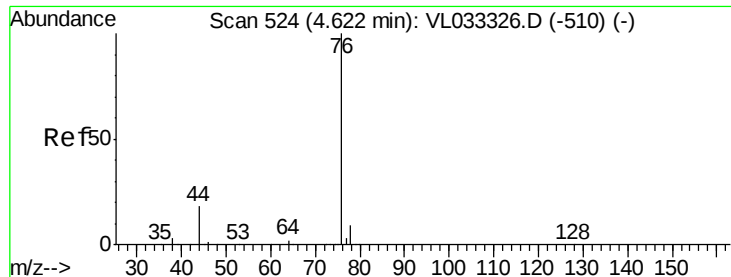
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#26
Hexane
Concen: 10.072 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033390.D
Acq: 20 Mar 2019 14:02

Tgt Ion	57	Resp	763238
Ion	Ratio	Lower	Upper
57	100		
41	92.5	70.5	105.7
43	229.9	181.8	272.8
56	53.5	42.2	63.2





#27

Carbon Disulfide

Concen: 11.647 ppbv

RT: 4.62 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL033390.D

Acq: 20 Mar 2019 14:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1016067

Ion Ratio Lower Upper

76 100

44 18.4 15.2 22.8

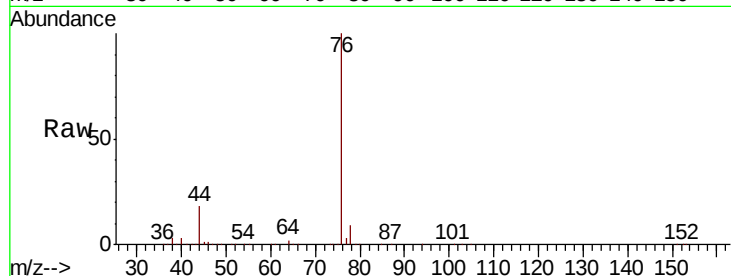
78 9.4 7.2 10.8

Manual Integrations

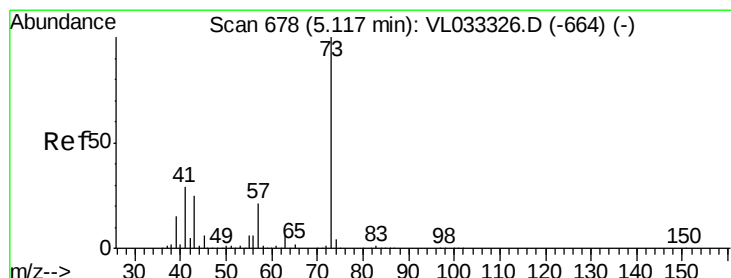
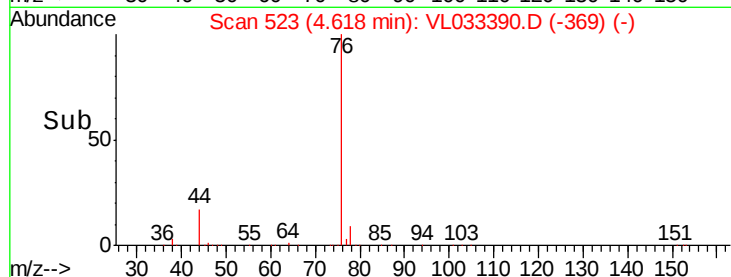
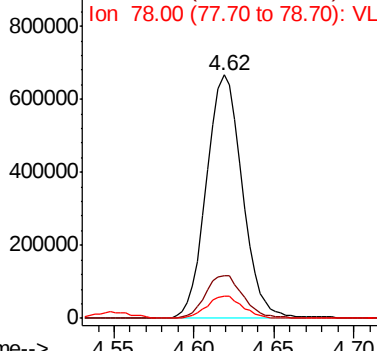
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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.500 ppbv

RT: 5.11 min Scan# 676

Delta R.T. -0.01 min

Lab File: VL033390.D

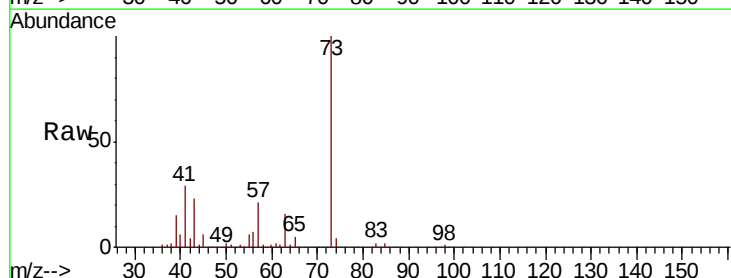
Acq: 20 Mar 2019 14:02

Tgt Ion: 73 Resp: 1181844

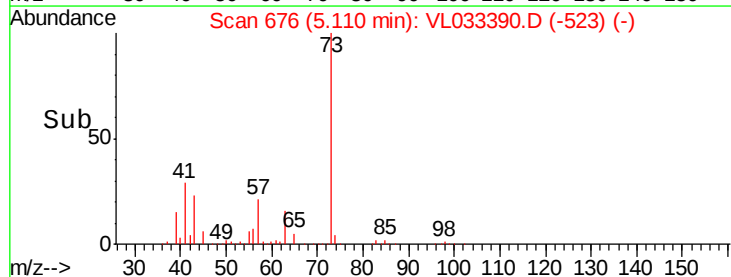
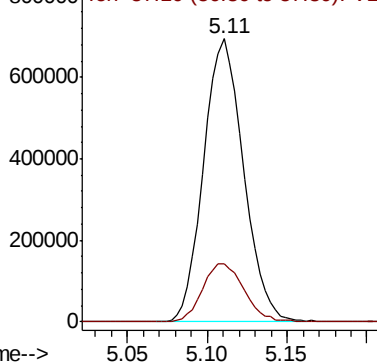
Ion Ratio Lower Upper

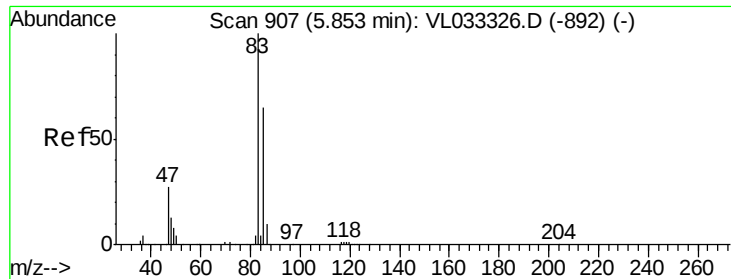
73 100

57 21.5 17.4 26.0



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 10.676 ppbv

RT: 5.85 min Scan# 906

Delta R.T. -0.00 min

Lab File: VL033390.D

Acq: 20 Mar 2019 14:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 1324663

Ion Ratio Lower Upper

83 100

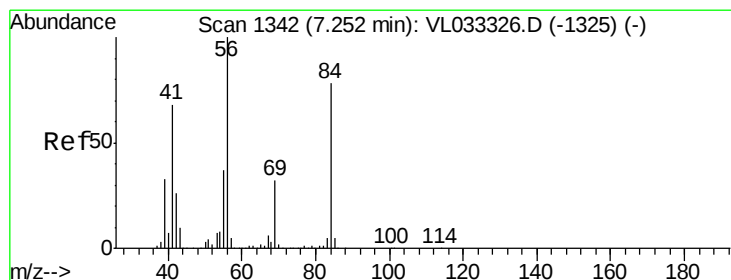
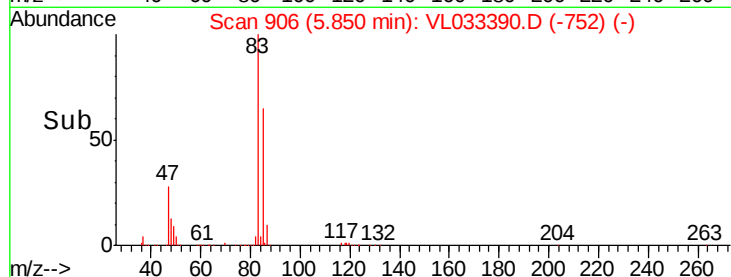
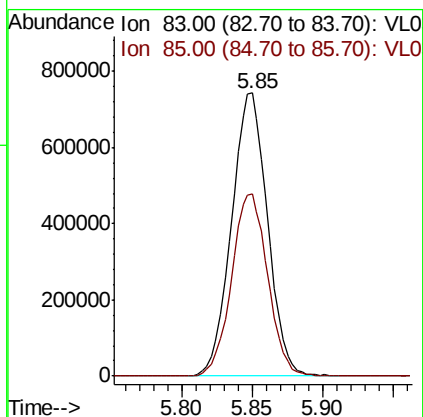
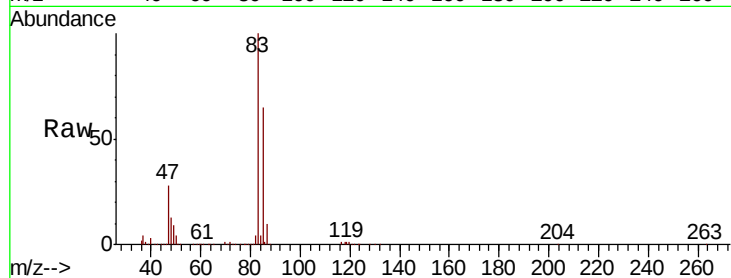
85 64.5 52.0 78.0

Manual Integrations

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#30

Cyclohexane

Concen: 10.561 ppbv

RT: 7.25 min Scan# 1340

Delta R.T. -0.01 min

Lab File: VL033390.D

Acq: 20 Mar 2019 14:02

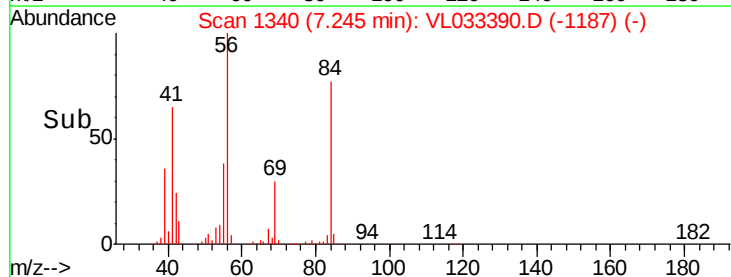
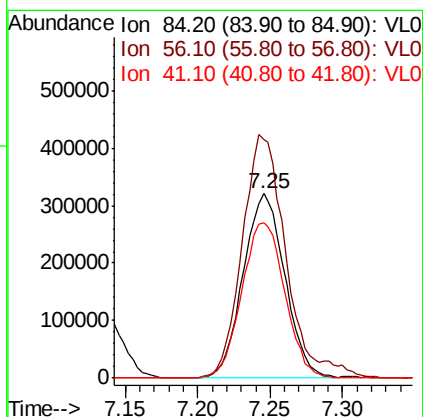
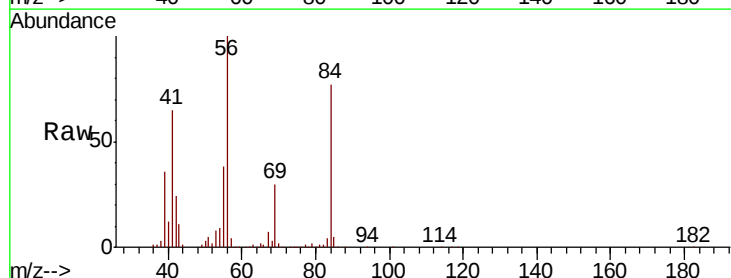
Tgt Ion: 84 Resp: 641659

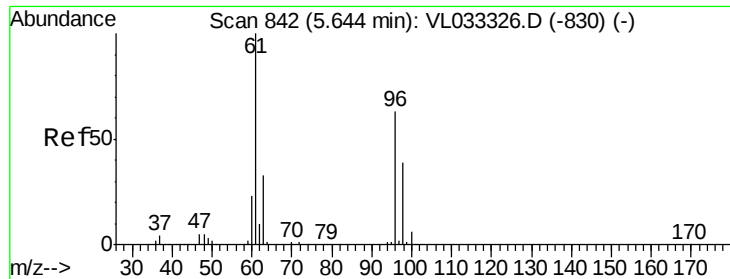
Ion Ratio Lower Upper

84 100

56 139.0 111.3 166.9

41 87.2 69.6 104.4





#31

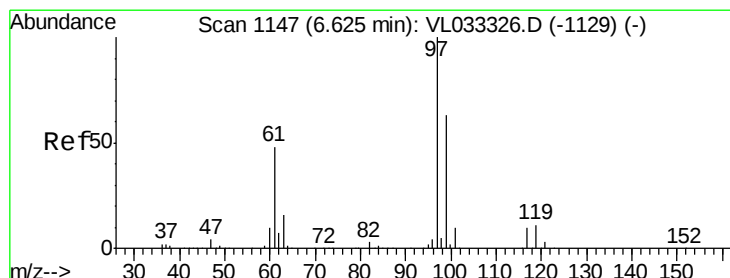
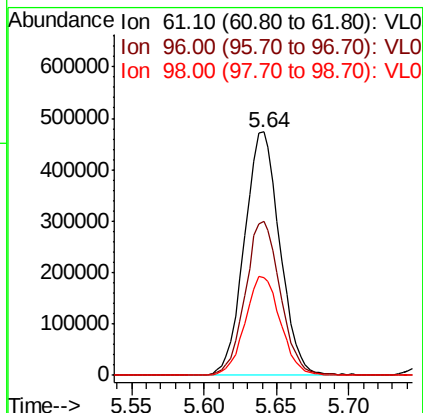
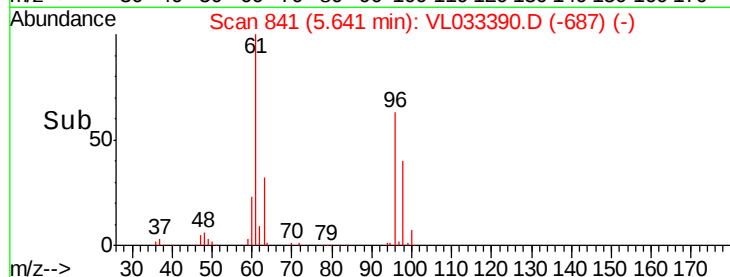
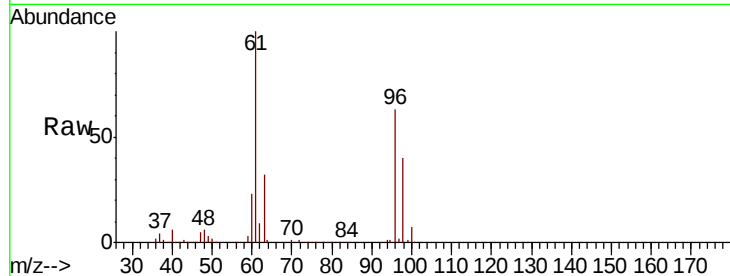
cis-1,2-Dichloroethene
Concen: 10.622 ppbv
RT: 5.64 min Scan# 841
Delta R.T. -0.00 min
Lab File: VL033390.D
Acq: 20 Mar 2019 14:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	63.1	50.3	75.5
98	40.0	31.5	47.3

Manual Integrations
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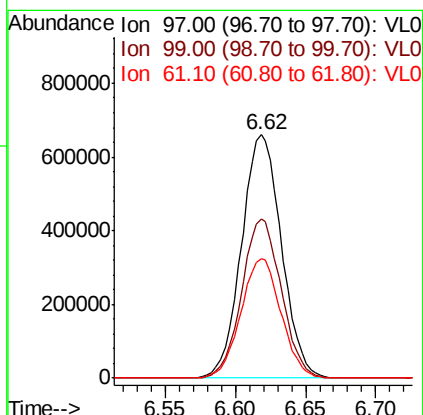
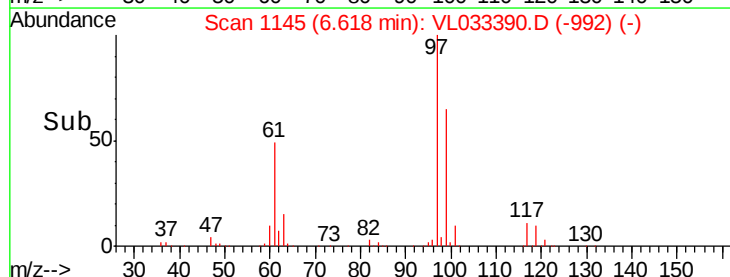
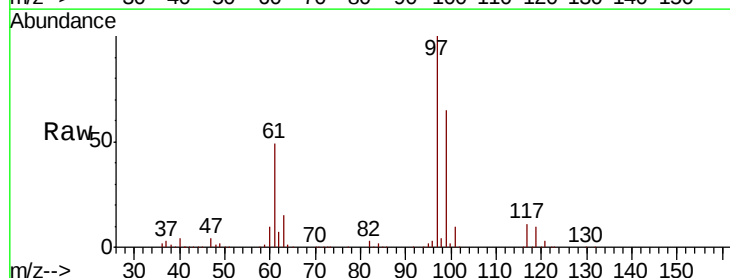
MMDadoda
3/25/2019 8:26:22 AM

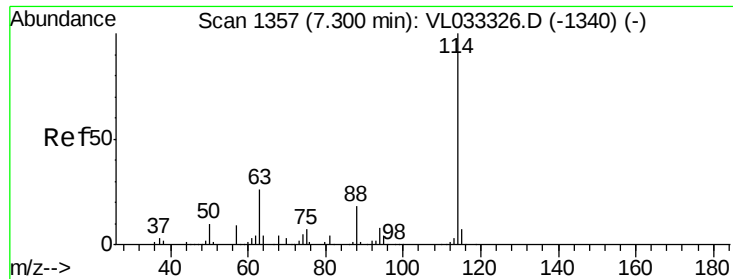


#32

1,1,1-Trichloroethane
Concen: 10.752 ppbv
RT: 6.62 min Scan# 1145
Delta R.T. -0.01 min
Lab File: VL033390.D
Acq: 20 Mar 2019 14:02

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.0	76.6
61	49.6	39.3	58.9





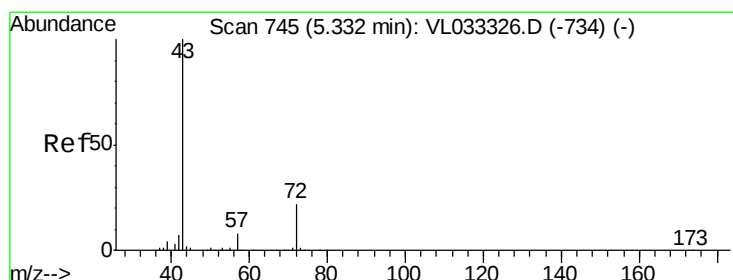
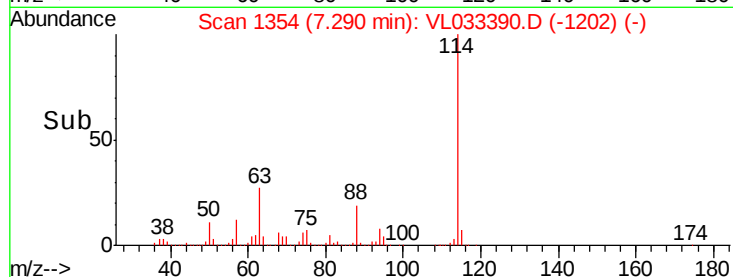
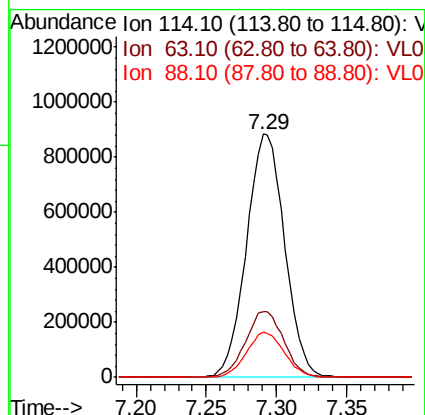
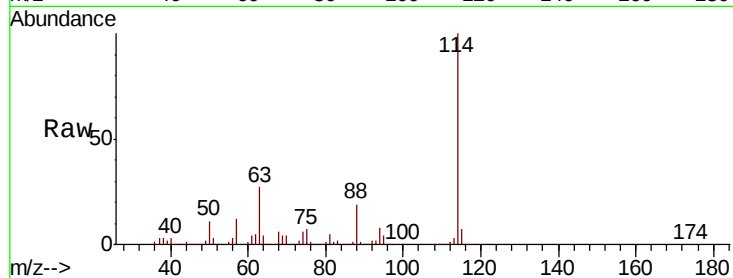
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.01 min
 Lab File: VL033390.D
 Acq: 20 Mar 2019 14:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.6	21.4	32.2
88	18.4	14.5	21.7

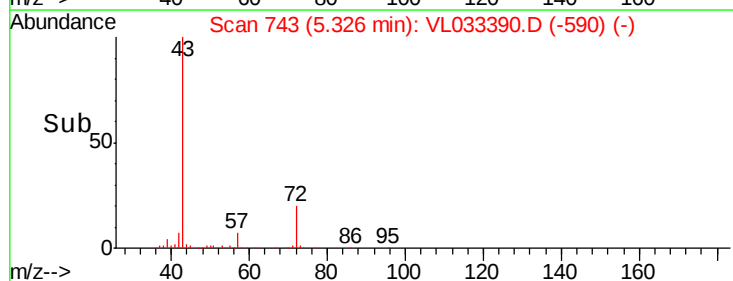
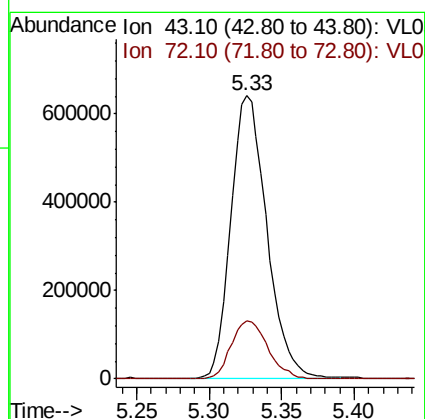
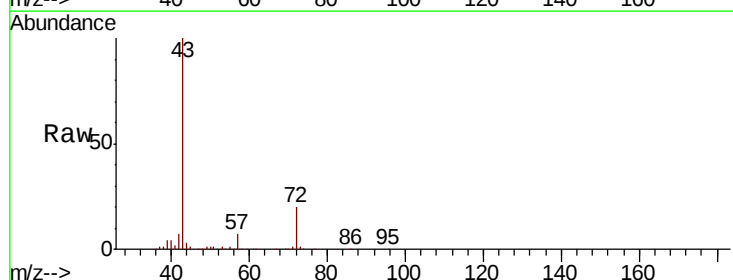
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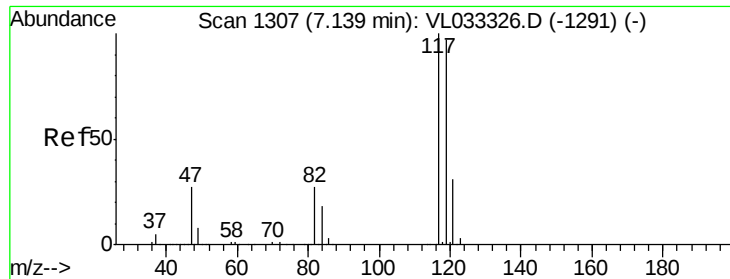
MMDadoda
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#34
 2-Butanone
 Concen: 10.005 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. -0.01 min
 Lab File: VL033390.D
 Acq: 20 Mar 2019 14:02

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.2	17.7	26.5





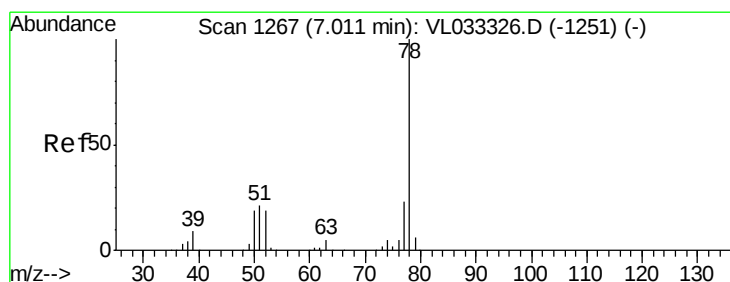
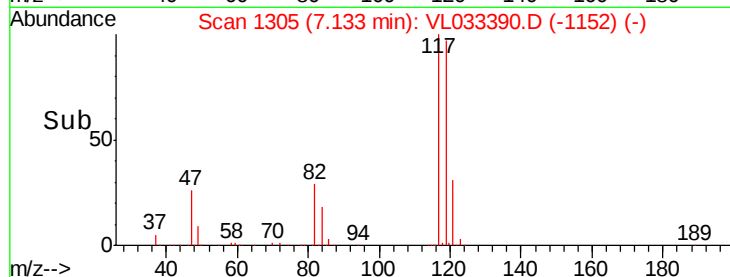
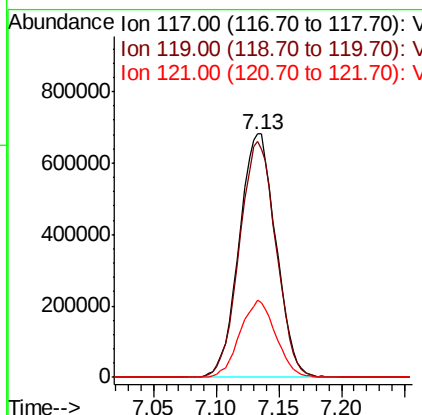
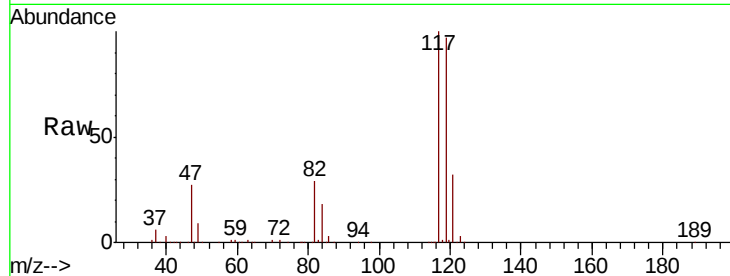
#35
Carbon Tetrachloride
Concen: 11.735 ppbv
RT: 7.13 min Scan# 1305
Delta R.T. -0.01 min
Lab File: VL033390.D
Acq: 20 Mar 2019 14:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:117 Resp: 1386768
Ion Ratio Lower Upper
117 100
119 96.9 77.4 116.0
121 31.5 24.9 37.3

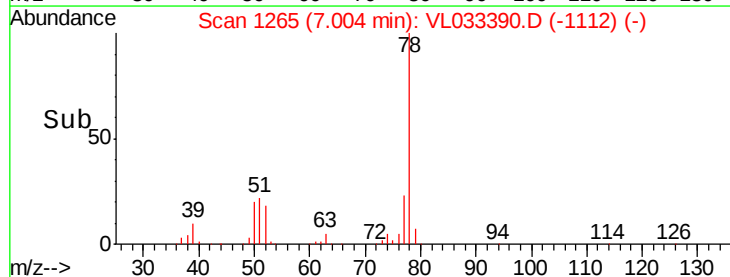
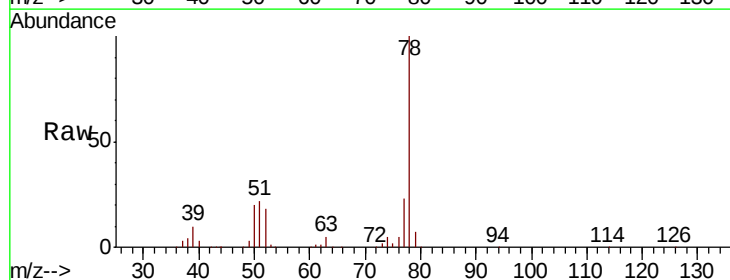
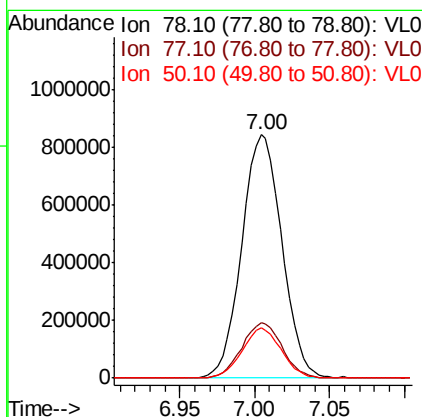
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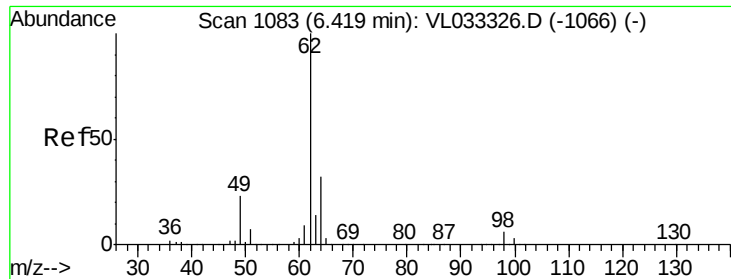
MMDadoda
3/25/2019 8:26:22 AM



#36
Benzene
Concen: 10.509 ppbv
RT: 7.00 min Scan# 1265
Delta R.T. -0.01 min
Lab File: VL033390.D
Acq: 20 Mar 2019 14:02

Tgt Ion: 78 Resp: 1576483
Ion Ratio Lower Upper
78 100
77 22.8 18.1 27.1
50 20.4 15.2 22.8





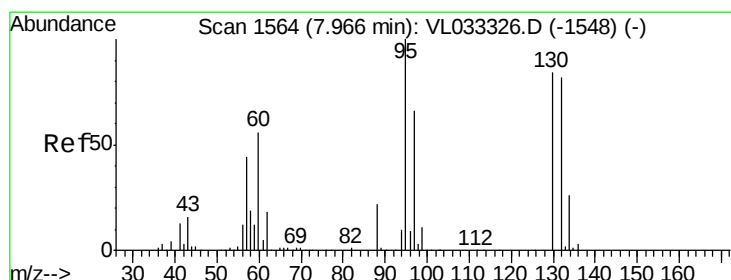
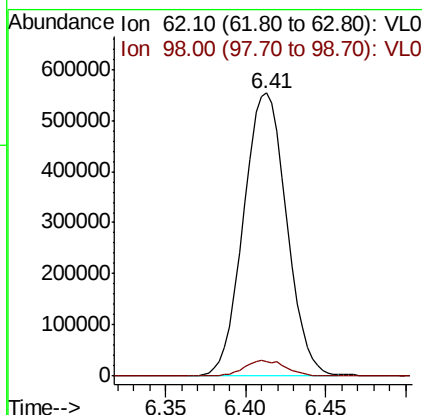
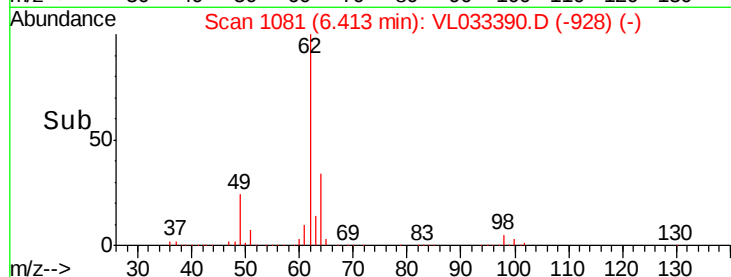
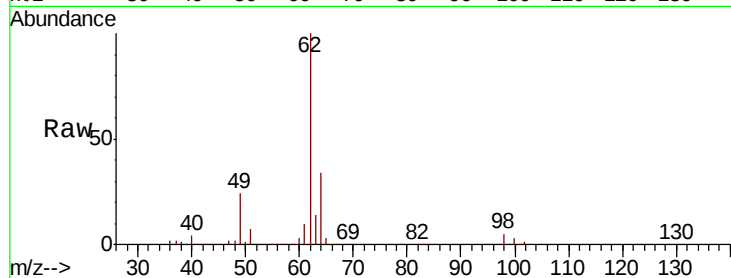
#37
 1,2-Dichloroethane
 Concen: 10.750 ppbv
 RT: 6.41 min Scan# 1081
 Delta R.T. -0.01 min
 Lab File: VL033390.D
 Acq: 20 Mar 2019 14:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 62 Resp: 1019723
 Ion Ratio Lower Upper
 62 100
 98 5.5 4.5 6.7

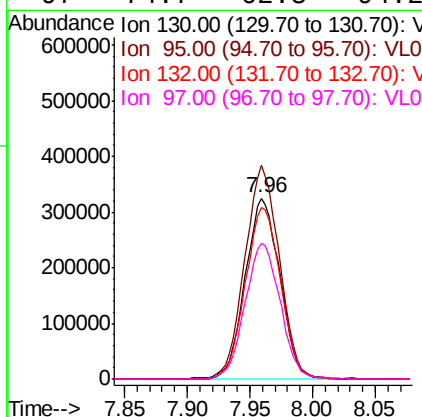
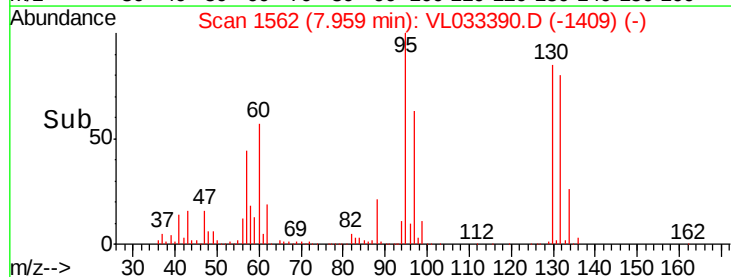
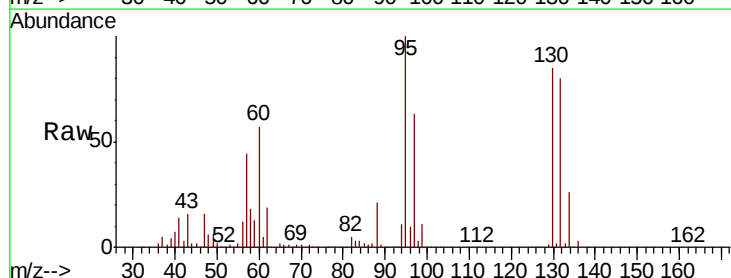
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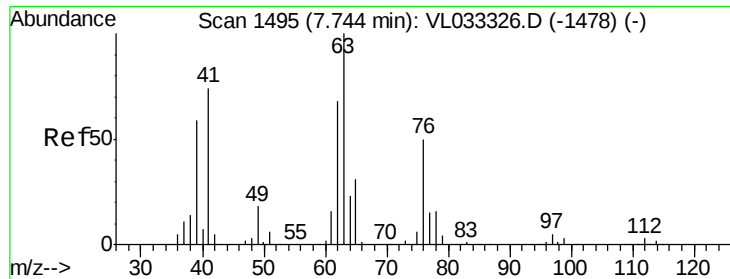
MMDadoda
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#38
 Trichloroethene
 Concen: 11.046 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. -0.01 min
 Lab File: VL033390.D
 Acq: 20 Mar 2019 14:02

Tgt Ion:130 Resp: 627065
 Ion Ratio Lower Upper
 130 100
 95 118.1 95.2 142.8
 132 94.8 77.7 116.5
 97 74.7 62.8 94.2





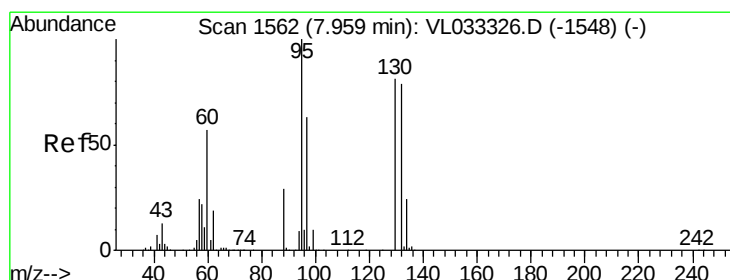
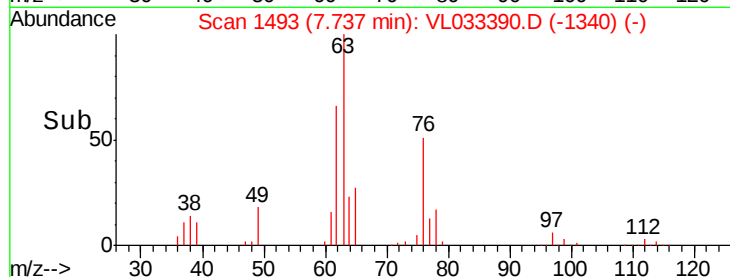
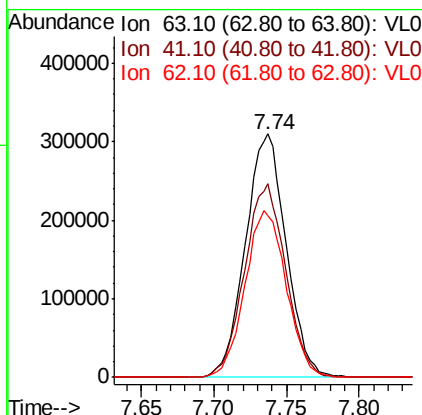
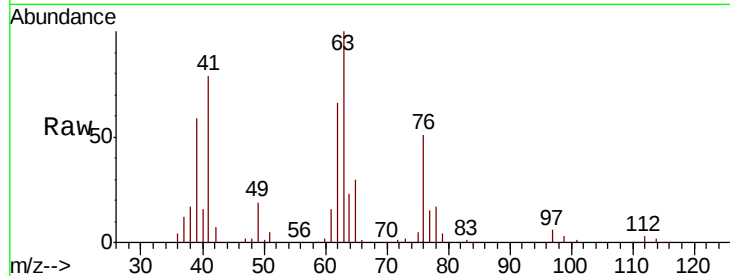
#39
 1,2-Dichloropropane
 Concen: 10.780 ppbv
 RT: 7.74 min Scan# 1493
 Delta R.T. -0.01 min
 Lab File: VL033390.D
 Acq: 20 Mar 2019 14:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	79.3	59.5	89.3
62	66.2	54.7	82.1

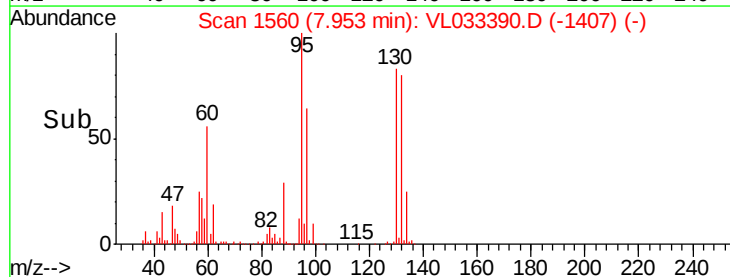
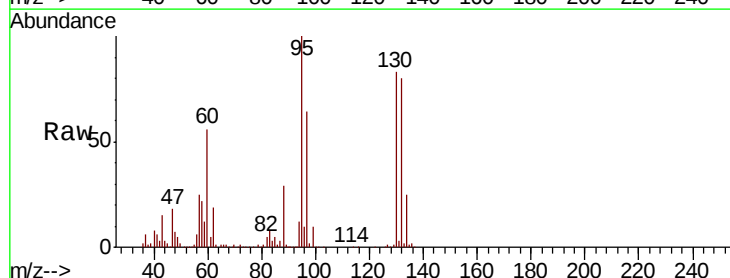
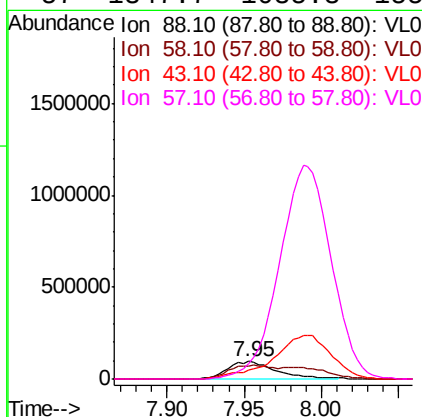
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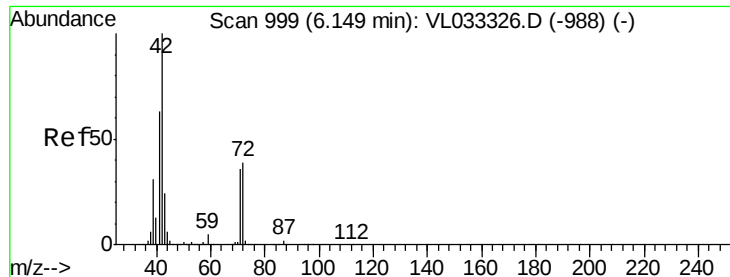
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#40
 1,4-Dioxane
 Concen: 10.200 ppbv
 RT: 7.95 min Scan# 1560
 Delta R.T. -0.01 min
 Lab File: VL033390.D
 Acq: 20 Mar 2019 14:02

Tgt Ion	Ratio	Lower	Upper
88	100		
58	139.5	107.9	161.9
43	305.8	230.8	346.2
57	1347.7	1035.3	1552.9





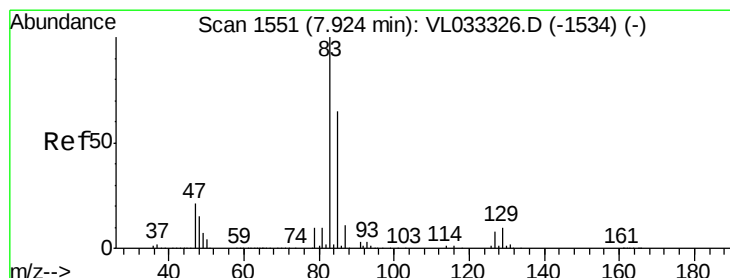
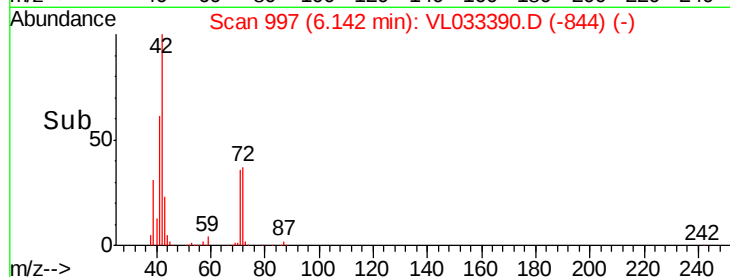
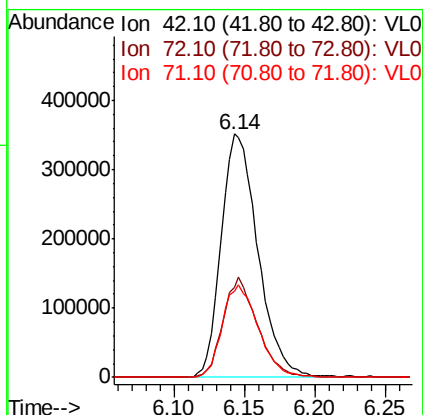
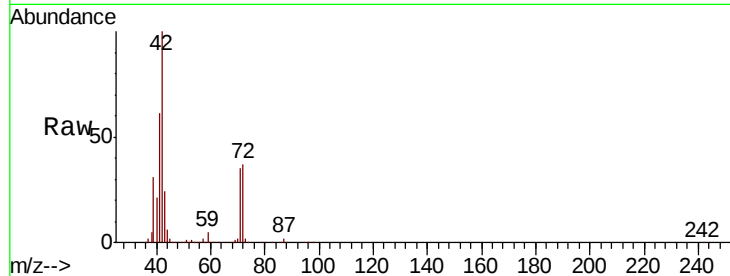
#41
Tetrahydrofuran
Concen: 10.792 ppbv
RT: 6.14 min Scan# 997
Delta R.T. -0.01 min
Lab File: VL033390.D
Acq: 20 Mar 2019 14:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.9	31.6	47.4
71	37.8	29.9	44.9

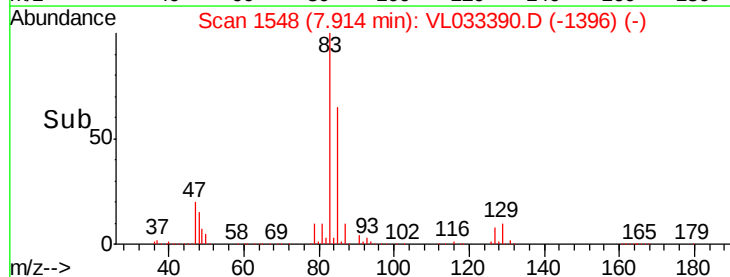
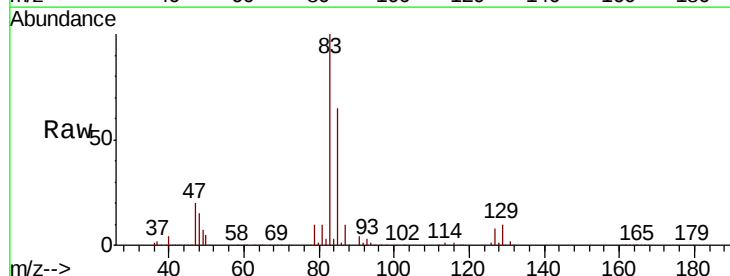
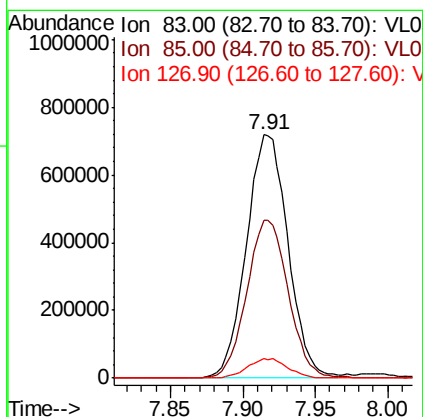
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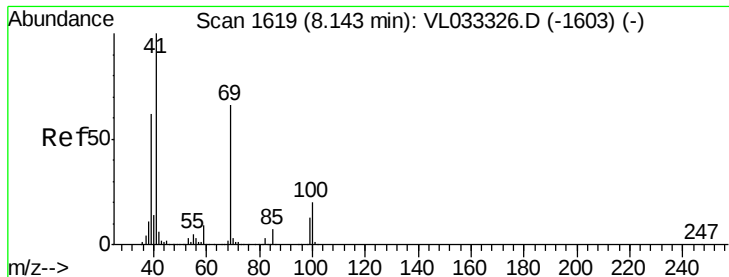
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#42
Bromodichloromethane
Concen: 11.291 ppbv
RT: 7.91 min Scan# 1548
Delta R.T. -0.01 min
Lab File: VL033390.D
Acq: 20 Mar 2019 14:02

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.0	51.8	77.6
127	8.2	6.2	9.2





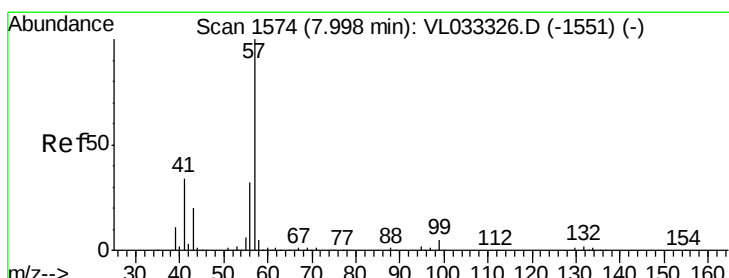
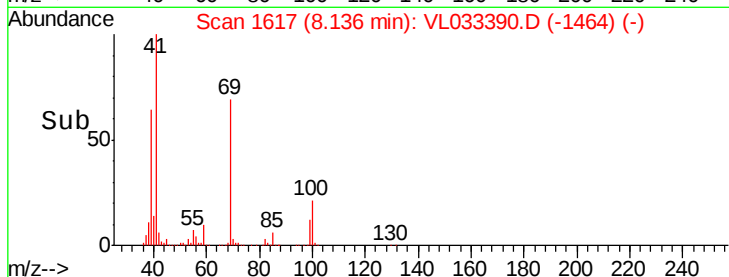
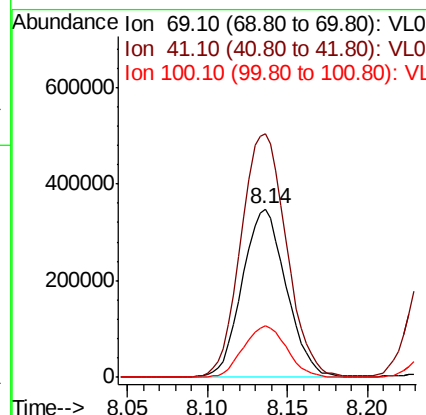
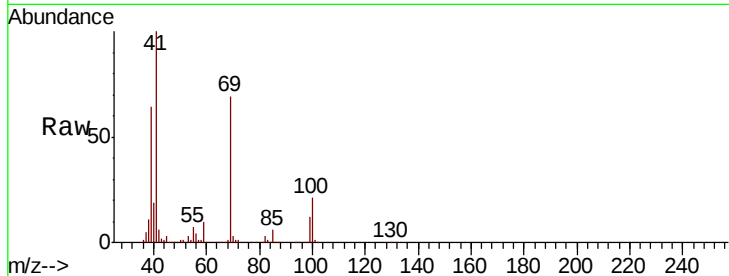
#43
Methvl Methacrylate
Concen: 11.173 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. -0.01 min
Lab File: VL033390.D
Acq: 20 Mar 2019 14:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	150.7	119.5	179.3	
100	30.6	24.4	36.6	

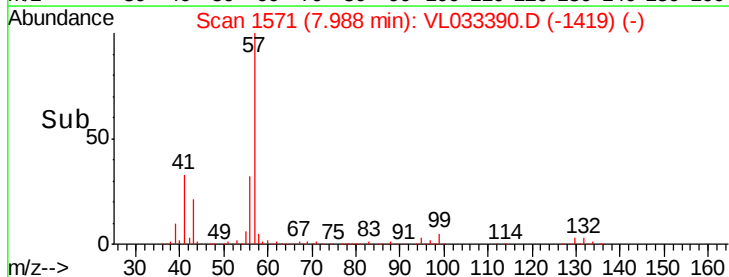
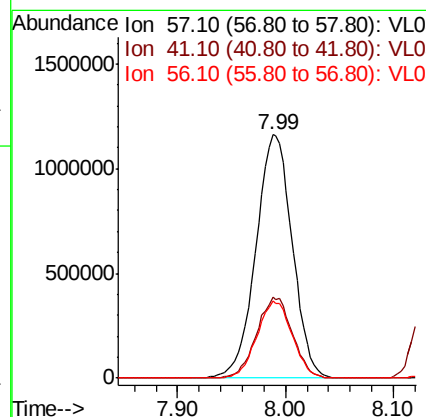
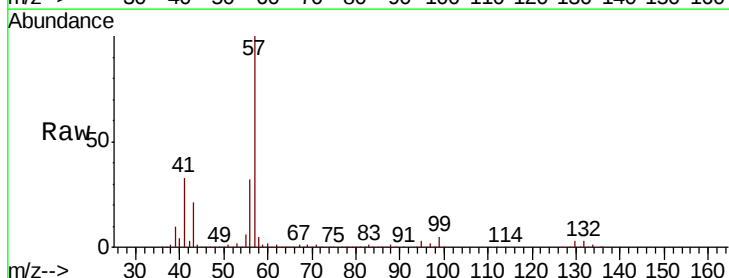
Manual Integrations
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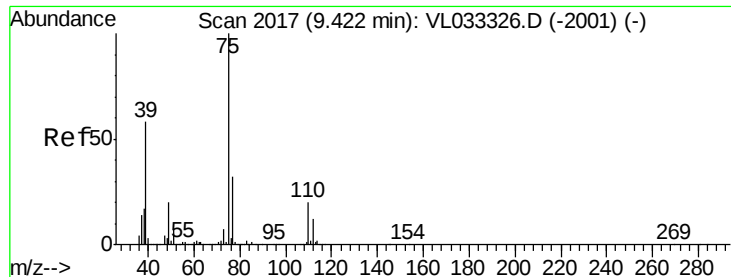
MMDadoda
3/25/2019 8:26:22 AM



#44
2,2,4-Trimethylpentane
Concen: 10.929 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. -0.01 min
Lab File: VL033390.D
Acq: 20 Mar 2019 14:02

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	32.7	26.0	39.0	
56	30.7	24.6	36.8	





#45

t-1,3-Dichloropropene

Concen: 12.302 ppbv

RT: 9.42 min Scan# 2015

Delta R.T. -0.01 min

Lab File: VL033390.D

Acq: 20 Mar 2019 14:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 75 Resp: 887206

Ion Ratio Lower Upper

75 100

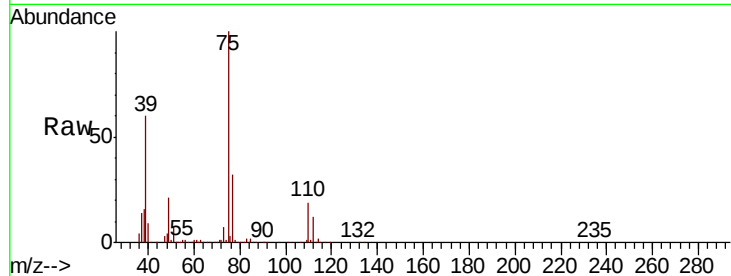
77 32.0 25.5 38.3

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.42

500000

400000

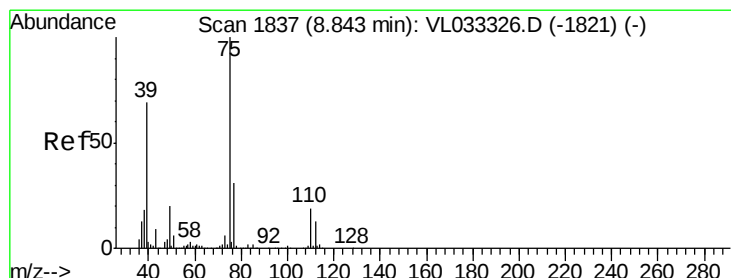
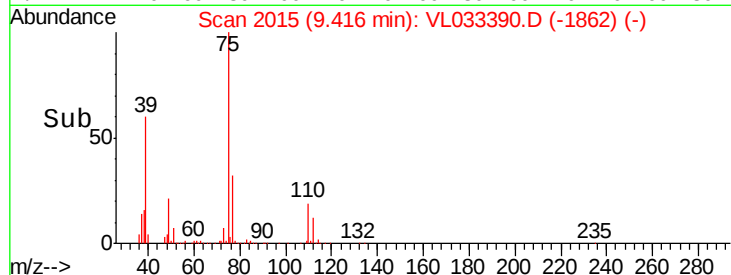
300000

200000

100000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 11.759 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. -0.01 min

Lab File: VL033390.D

Acq: 20 Mar 2019 14:02

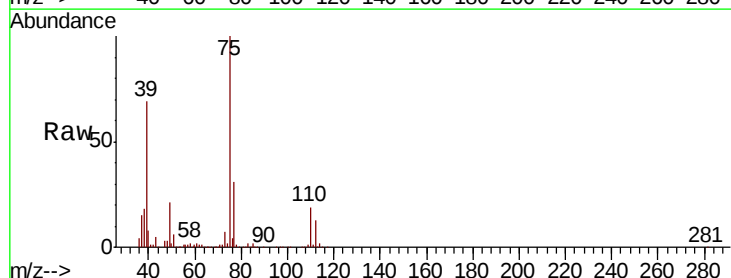
Tgt Ion: 75 Resp: 998554

Ion Ratio Lower Upper

75 100

39 68.9 55.0 82.6

77 31.2 24.5 36.7



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

8.83

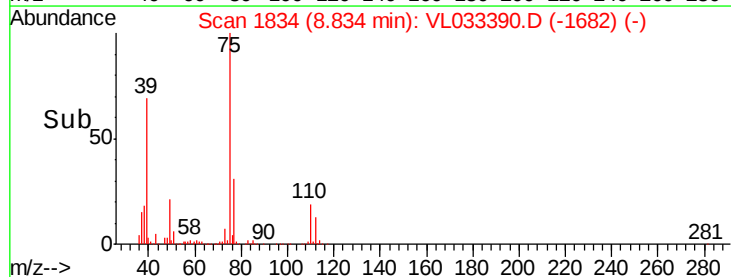
600000

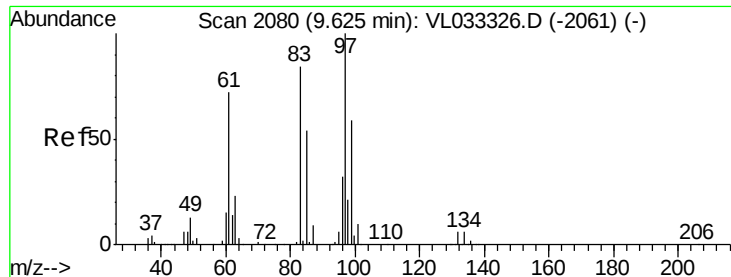
400000

200000

0

Time-->





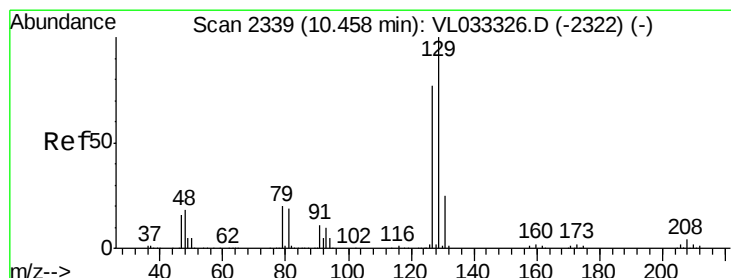
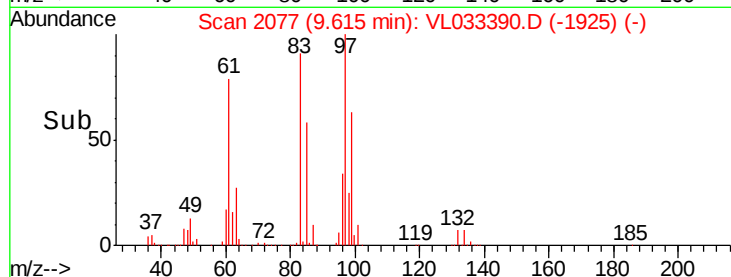
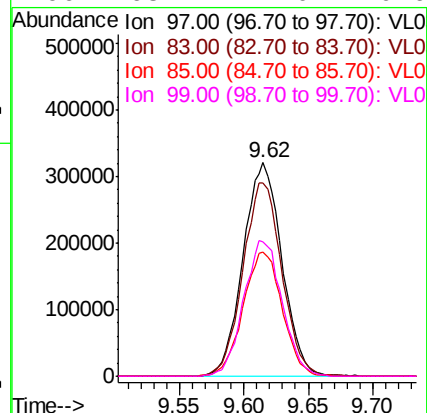
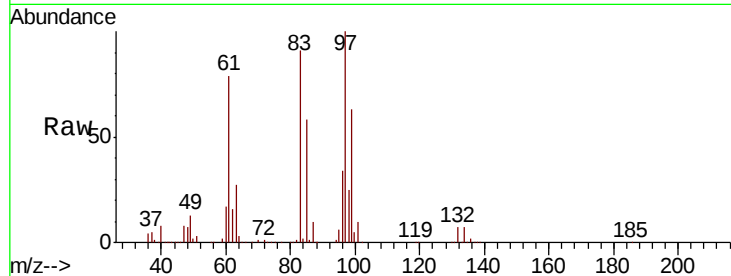
#47
 1,1,2-Trichloroethane
 Concen: 10.825 ppbv
 RT: 9.62 min Scan# 2077
 Delta R.T. -0.01 min
 Lab File: VL033390.D
 Acq: 20 Mar 2019 14:02

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
97	100		
83	90.7	67.4	101.0
85	57.7	43.0	64.4
99	63.2	47.0	70.6

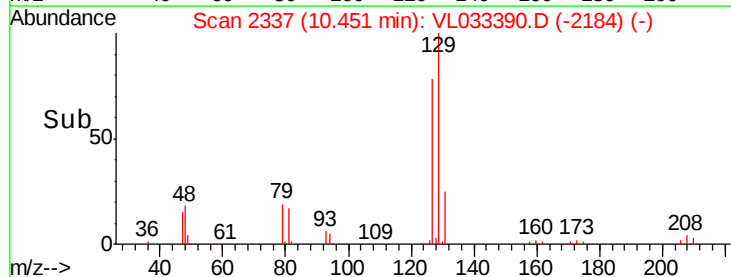
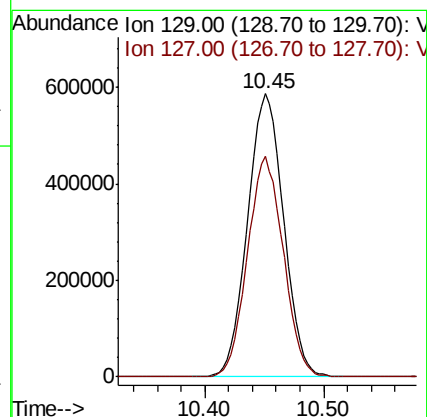
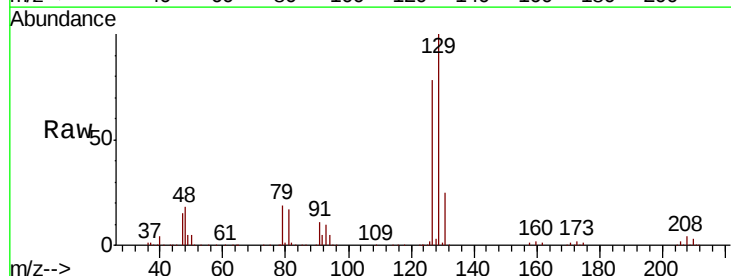
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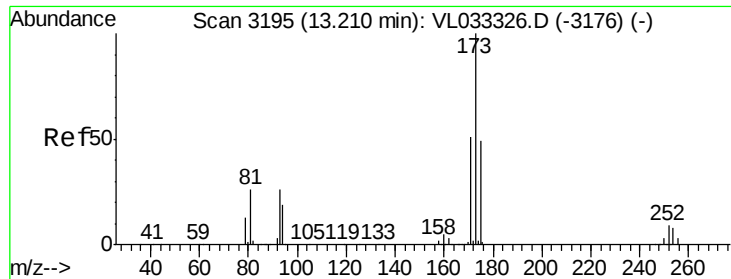
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#48
 Dibromochloromethane
 Concen: 11.827 ppbv
 RT: 10.45 min Scan# 2337
 Delta R.T. -0.01 min
 Lab File: VL033390.D
 Acq: 20 Mar 2019 14:02

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.6	38.9	116.6





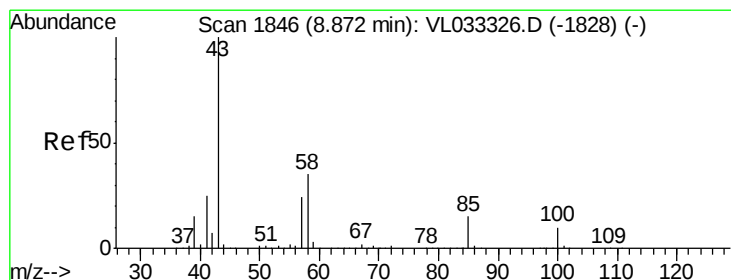
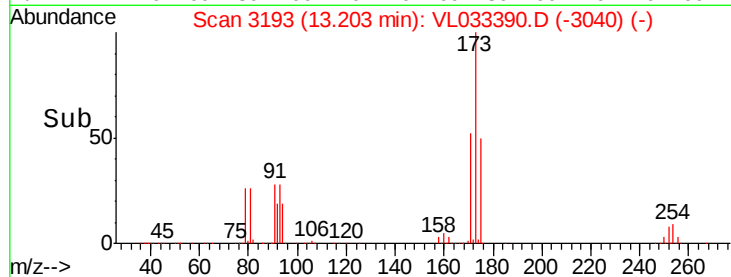
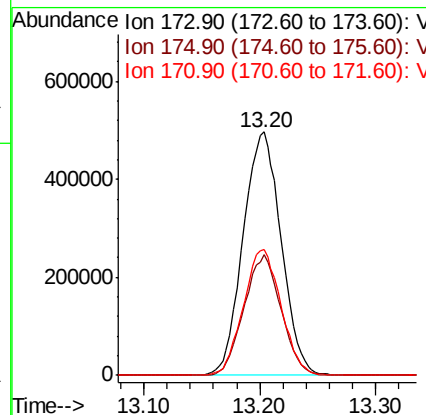
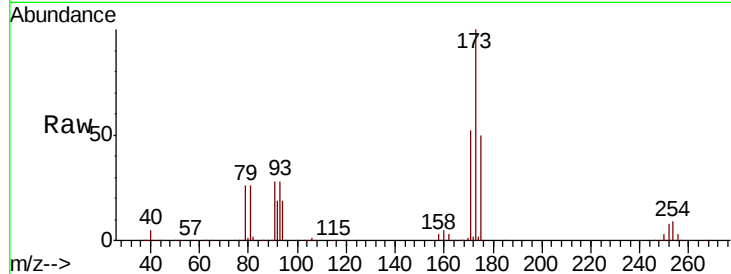
#49
Bromoform
Concen: 11.448 ppbv
RT: 13.20 min Scan# 3193
Delta R.T. -0.01 min
Lab File: VL033390.D
Acq: 20 Mar 2019 14:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:173 Resp: 1130500
Ion Ratio Lower Upper
173 100
175 48.4 39.0 58.6
171 51.3 41.7 62.5

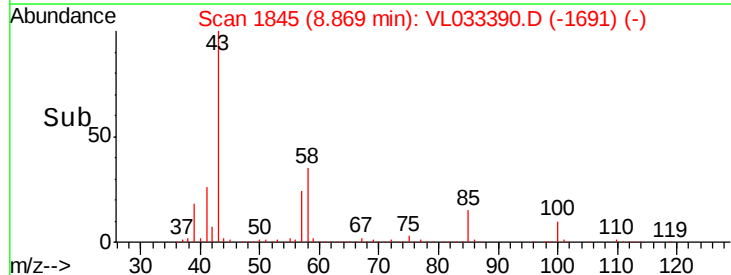
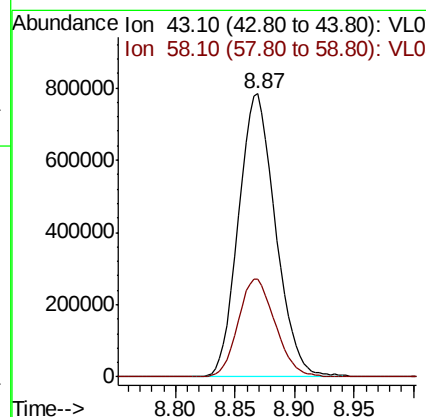
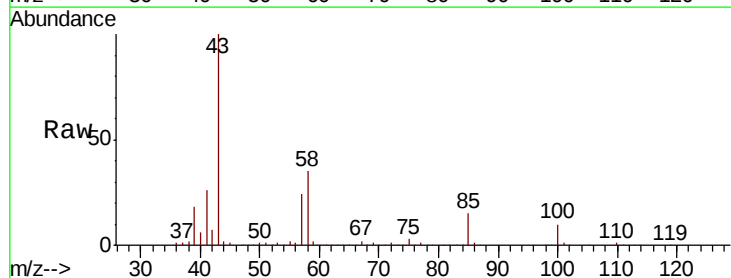
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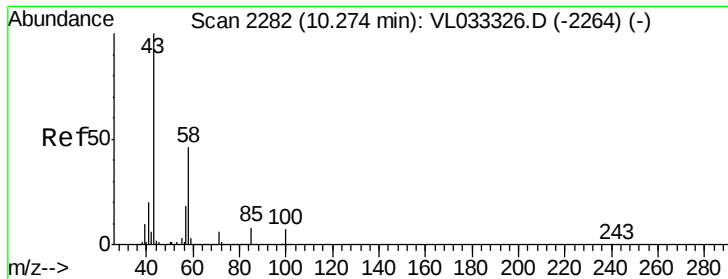
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 10.887 ppbv
RT: 8.87 min Scan# 1845
Delta R.T. -0.00 min
Lab File: VL033390.D
Acq: 20 Mar 2019 14:02

Tgt Ion: 43 Resp: 1692919
Ion Ratio Lower Upper
43 100
58 34.7 28.4 42.6





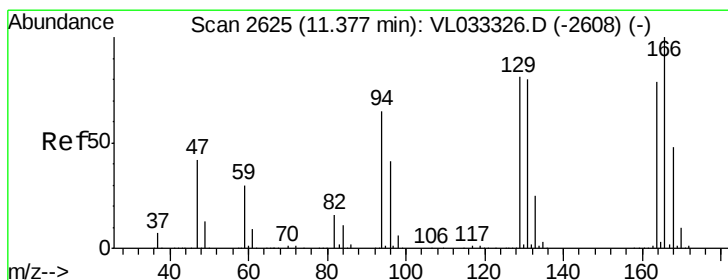
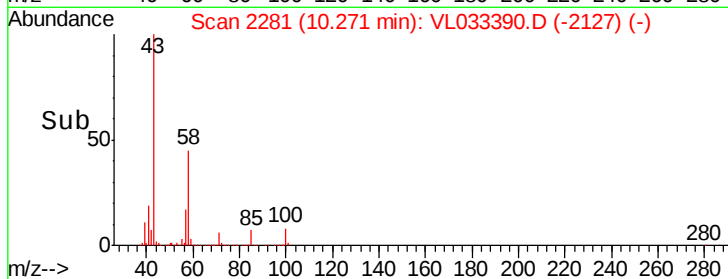
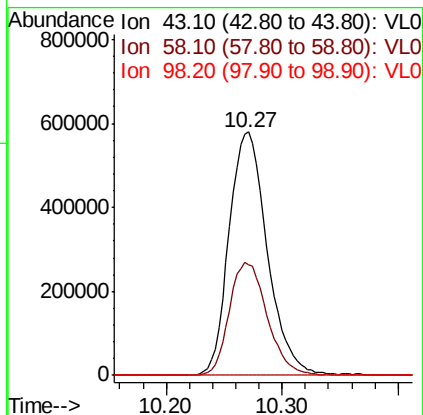
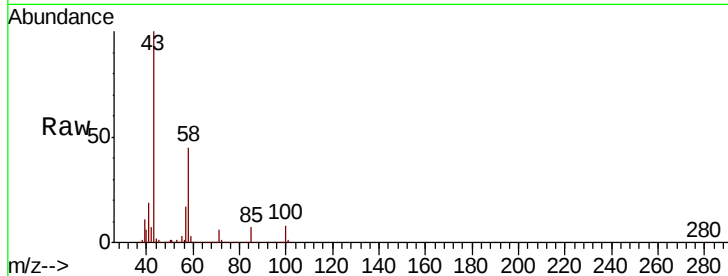
#51
2-Hexanone
Concen: 11.029 ppbv
RT: 10.27 min Scan# 2281
Delta R.T. -0.00 min
Lab File: VL033390.D
Acq: 20 Mar 2019 14:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
43	100		
58	46.3	38.0	57.0
98	0.4	0.1	0.1#

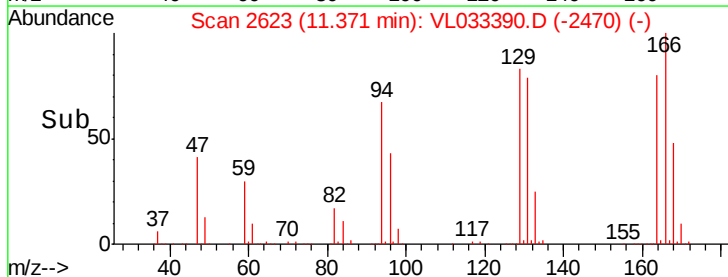
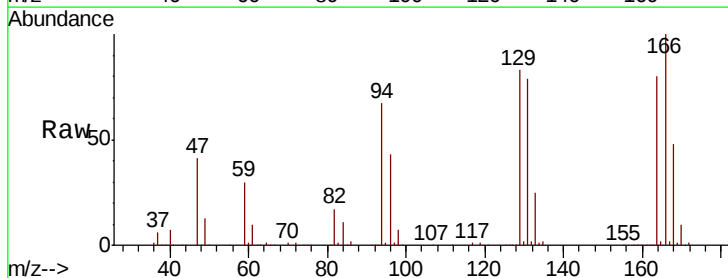
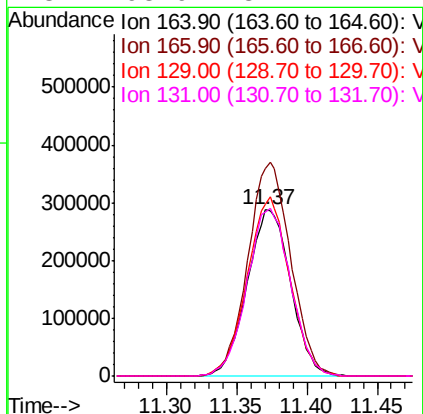
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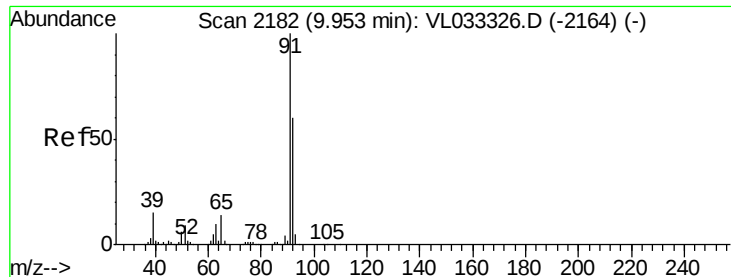
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#52
Tetrachloroethene
Concen: 9.922 ppbv
RT: 11.37 min Scan# 2623
Delta R.T. -0.01 min
Lab File: VL033390.D
Acq: 20 Mar 2019 14:02

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.5	101.5	152.3
129	103.3	82.2	123.2
131	98.9	81.1	121.7





#53

Toluene

Concen: 11.258 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.01 min

Lab File: VL033390.D

Acq: 20 Mar 2019 14:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 1919040

Ion Ratio Lower Upper

91 100

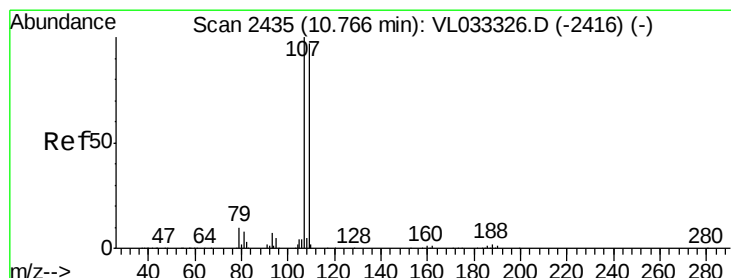
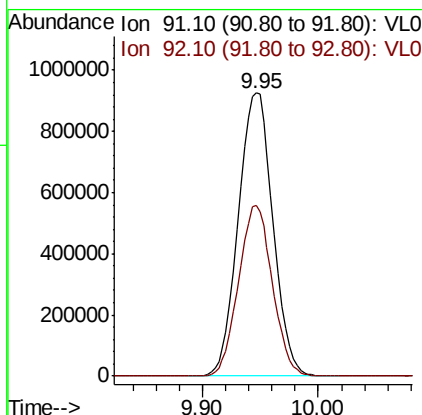
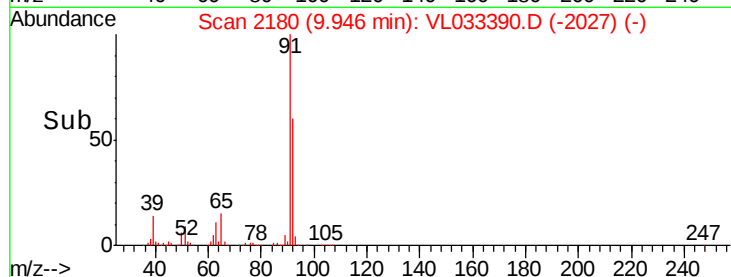
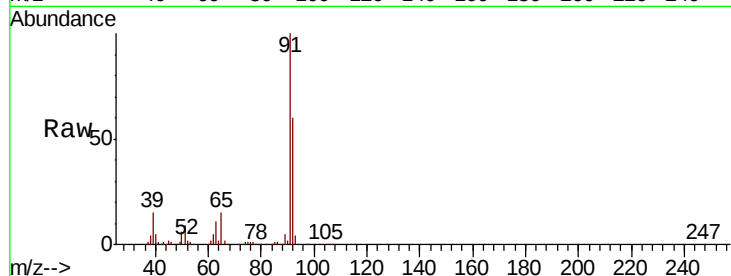
92 59.0 47.4 71.0

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#54

1,2-Dibromoethane

Concen: 10.549 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. -0.01 min

Lab File: VL033390.D

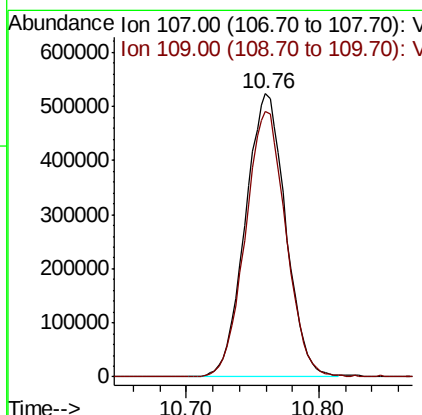
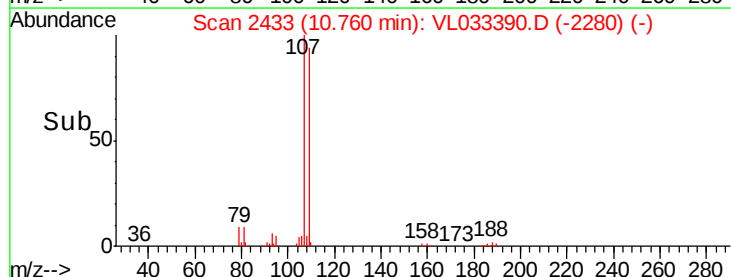
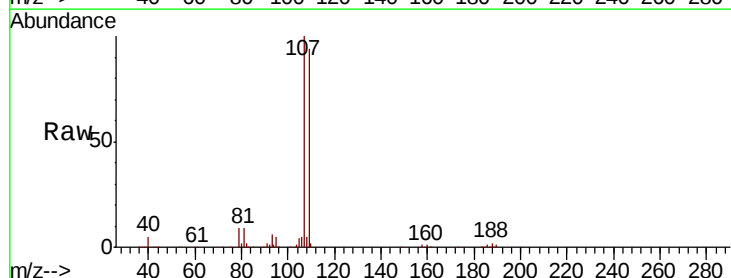
Acq: 20 Mar 2019 14:02

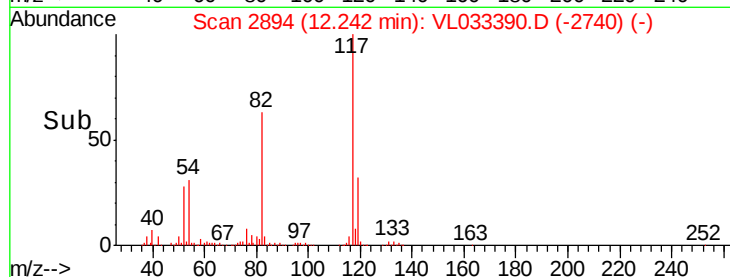
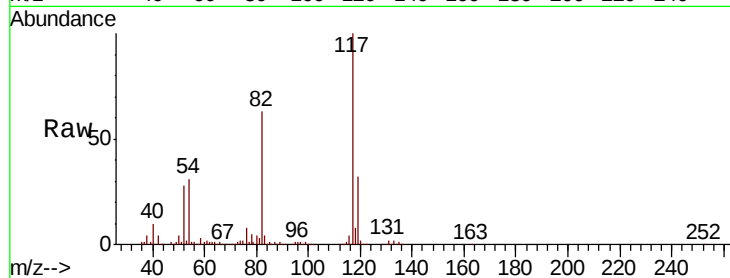
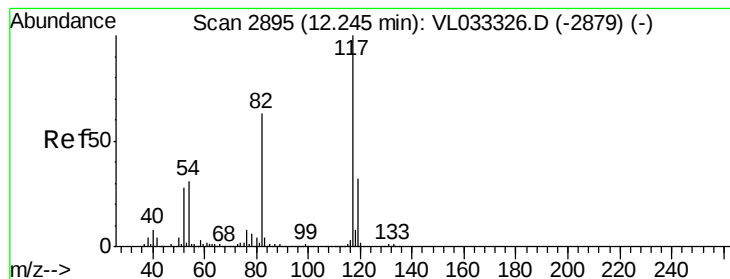
Tgt Ion: 107 Resp: 1106944

Ion Ratio Lower Upper

107 100

109 93.7 77.2 115.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.24 min Scan# 2894

Delta R.T. -0.00 min

Lab File: VL033390.D

Acq: 20 Mar 2019 14:02

Tot Ion:117 Resp: 1832783

Ion Ratio Lower Upper

117 100

82 63.5 53.4 80.2

119 30.8 27.3 40.9

Instrument :

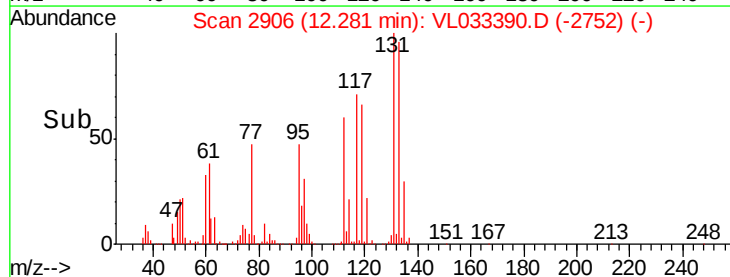
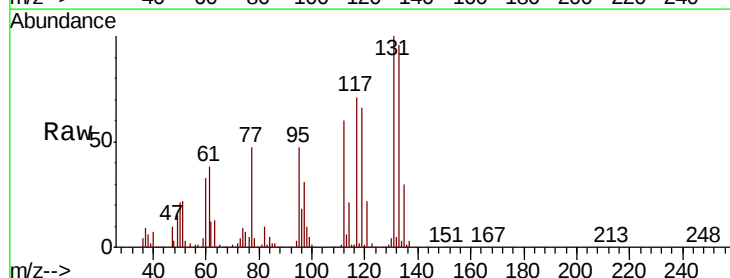
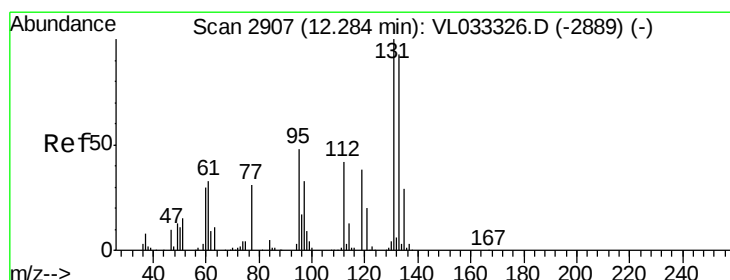
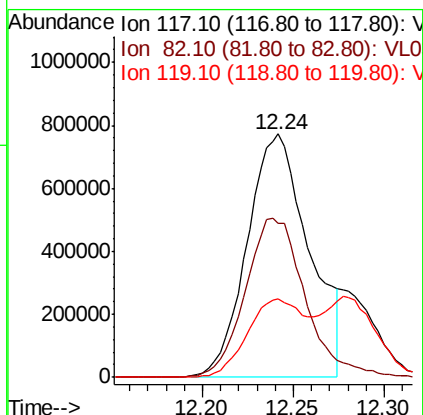
MSVOA_L

ClientSampleId :

VSTDCCC010

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#56

1,1,1,2-Tetrachloroethane

Concen: 10.818 ppbv

RT: 12.28 min Scan# 2906

Delta R.T. -0.00 min

Lab File: VL033390.D

Acq: 20 Mar 2019 14:02

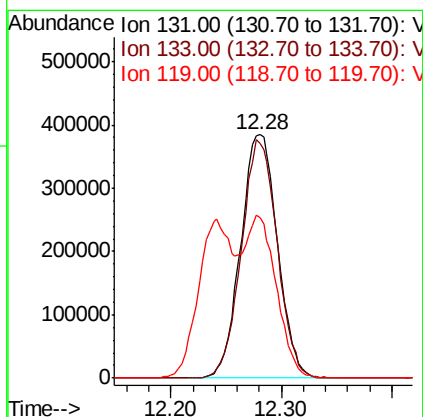
Tgt Ion:131 Resp: 886953

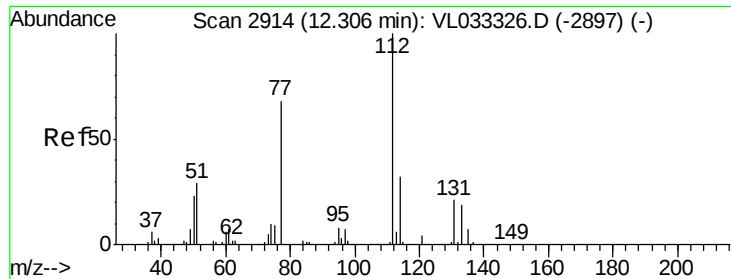
Ion Ratio Lower Upper

131 100

133 95.6 76.7 115.1

119 54.2 40.3 60.5





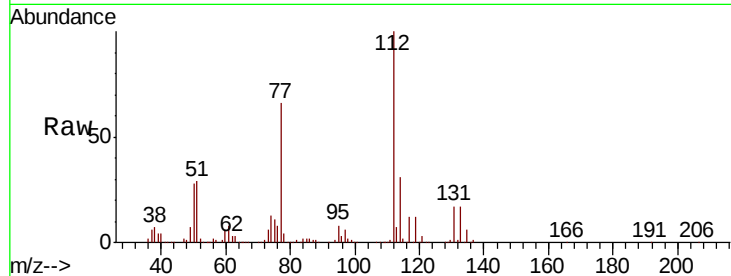
#57
Chlorobenzene
Concen: 10.172 ppbv
RT: 12.30 min Scan# 2913
Delta R.T. -0.00 min
Lab File: VL033390.D
Acq: 20 Mar 2019 14:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

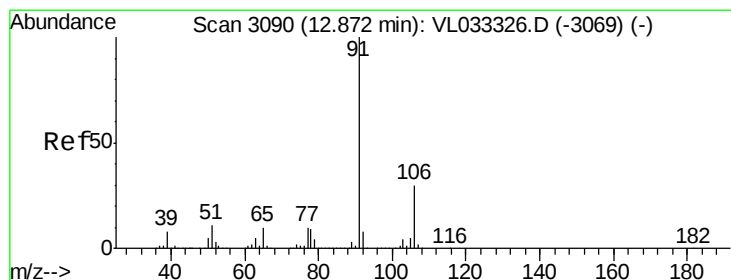
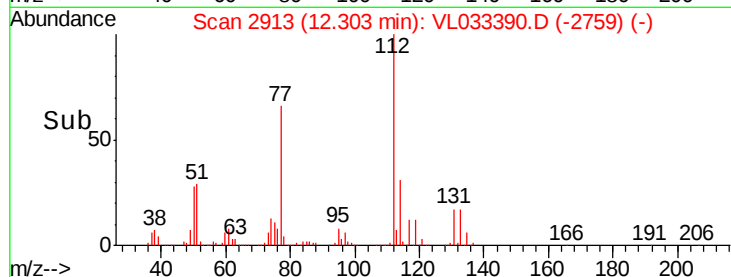
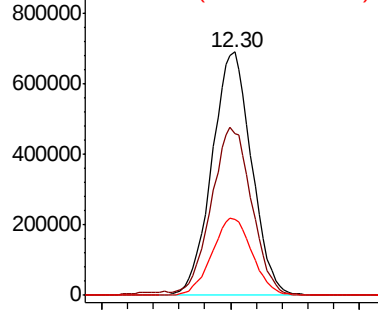
Tot Ion	Ratio	Lower	Upper
112	100		
77	66.1	55.8	83.6
114	31.2	28.6	35.0

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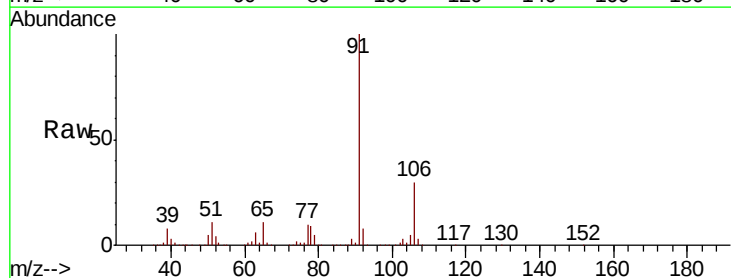


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

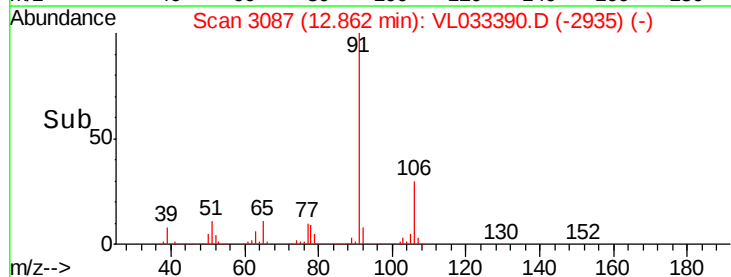
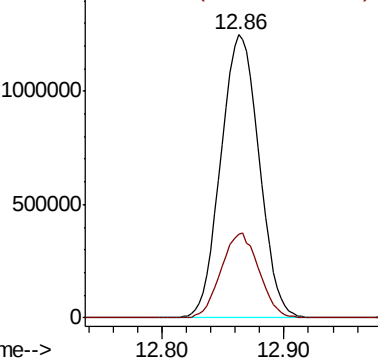


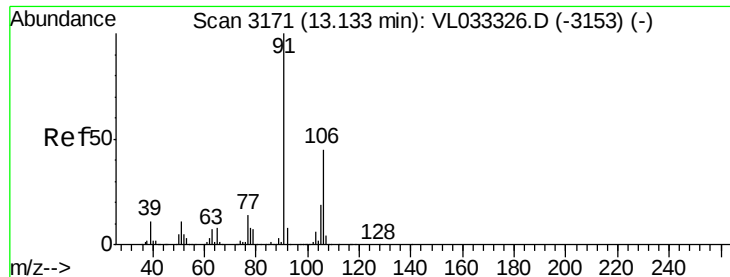
#58
Ethyl Benzene
Concen: 10.479 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. -0.01 min
Lab File: VL033390.D
Acq: 20 Mar 2019 14:02

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.6	24.2	36.2



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





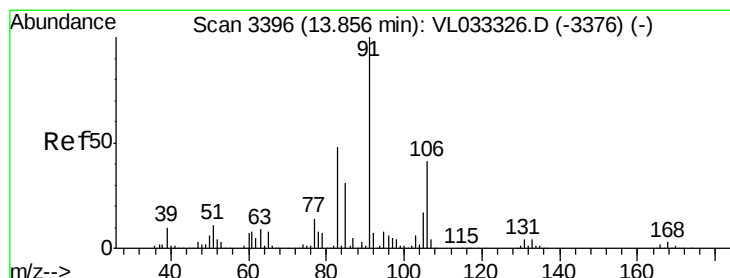
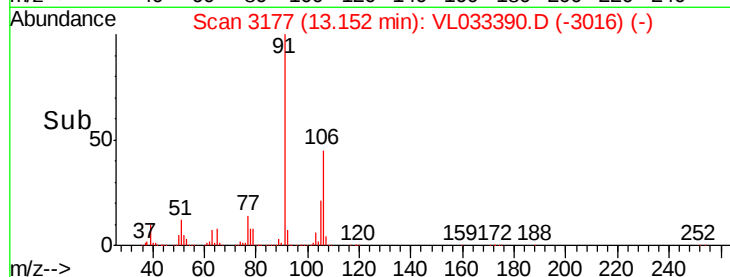
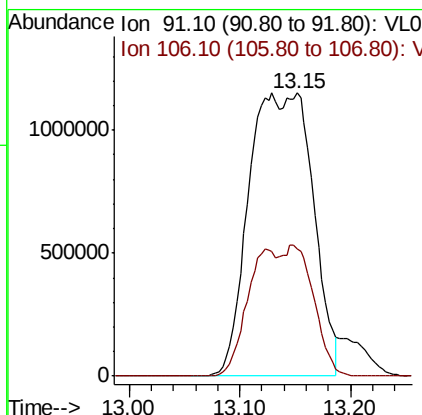
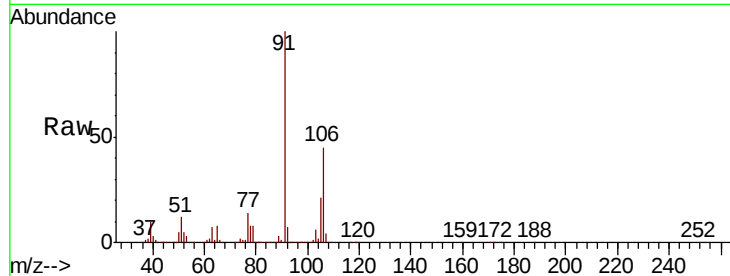
#59
m/p-Xylene
Concen: 20.804 ppbv m
RT: 13.15 min Scan# 3177
Delta R.T. 0.02 min
Lab File: VL033390.D
Acq: 20 Mar 2019 14:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 4635499
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

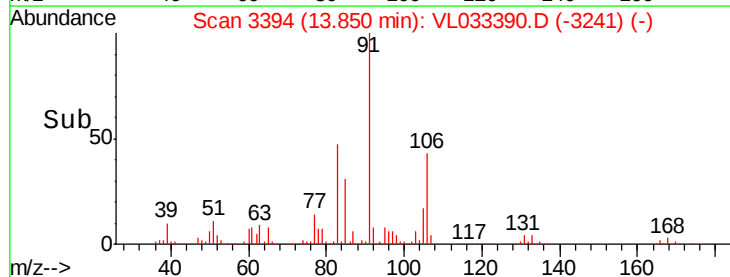
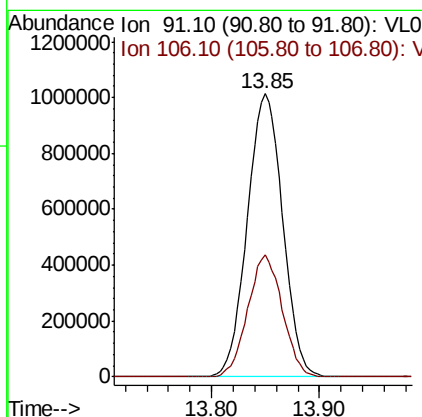
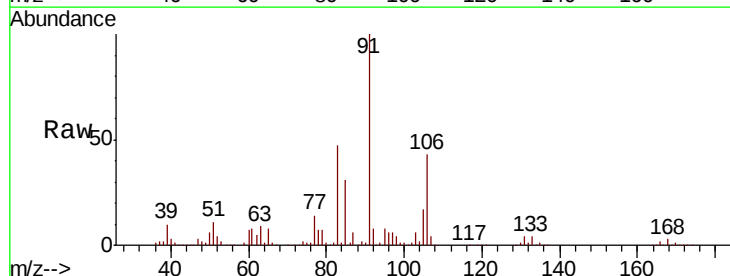
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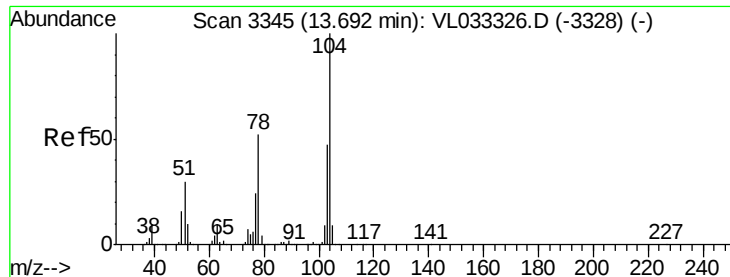
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#60
o-Xylene
Concen: 10.612 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. -0.01 min
Lab File: VL033390.D
Acq: 20 Mar 2019 14:02

Tgt Ion: 91 Resp: 2306753
Ion Ratio Lower Upper
91 100
106 42.1 21.3 63.9





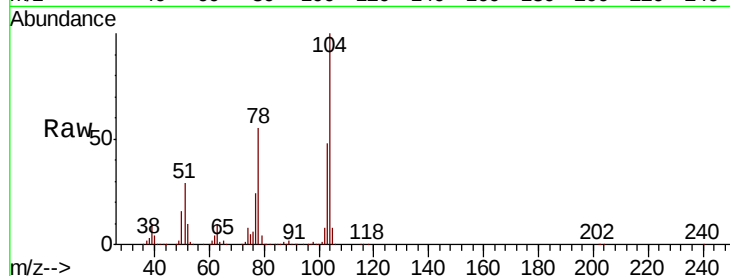
#61
Stvrene
Concen: 10.859 ppbv
RT: 13.69 min Scan# 3343
Delta R.T. -0.01 min
Lab File: VL033390.D
Acq: 20 Mar 2019 14:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

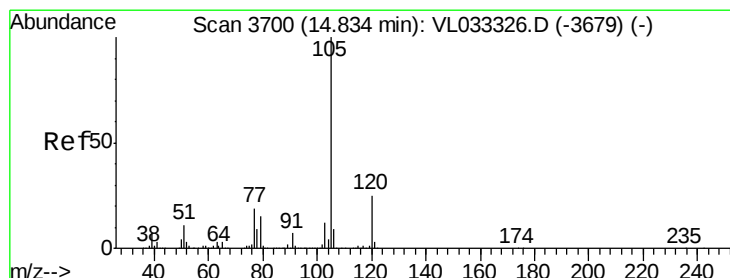
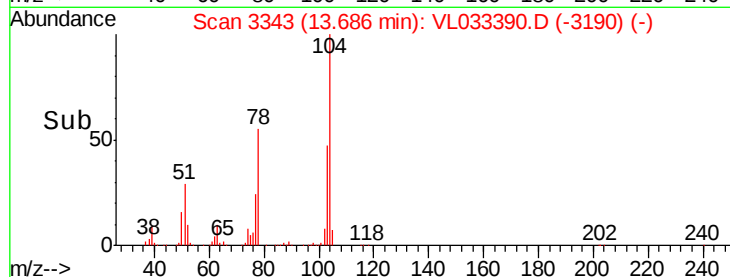
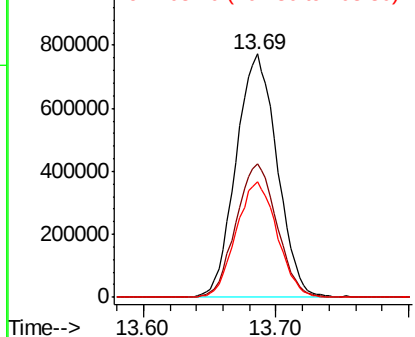
Tot Ion:104 Resp: 1652656
Ion Ratio Lower Upper
104 100
78 54.9 42.7 64.1
103 47.7 38.0 57.0

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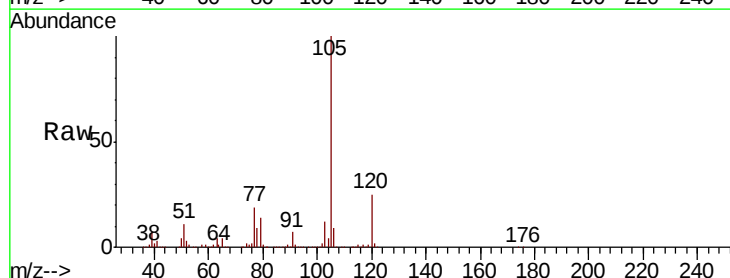


Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VL0
Ion 103.10 (102.80 to 103.80): V

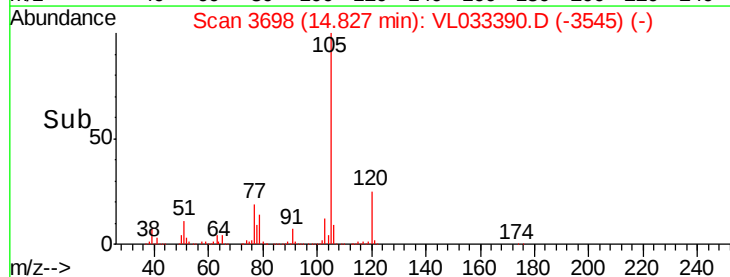
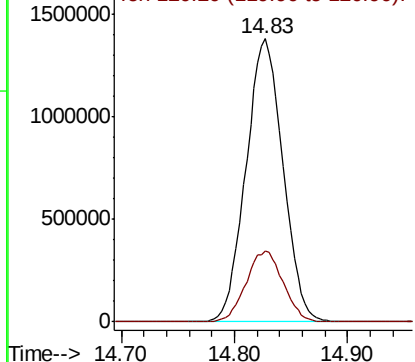


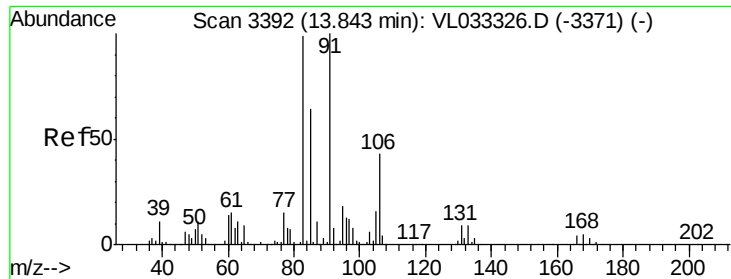
#62
Isopropylbenzene
Concen: 10.365 ppbv
RT: 14.83 min Scan# 3698
Delta R.T. -0.01 min
Lab File: VL033390.D
Acq: 20 Mar 2019 14:02

Tgt Ion:105 Resp: 3132179
Ion Ratio Lower Upper
105 100
120 25.1 19.9 29.9



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





#63

1,1,2,2-Tetrachloroethane

Concen: 10.105 ppbv

RT: 13.84 min Scan# 3390

Delta R.T. -0.01 min

Lab File: VL033390.D

Acq: 20 Mar 2019 14:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 1587827

Ion Ratio Lower Upper

83 100

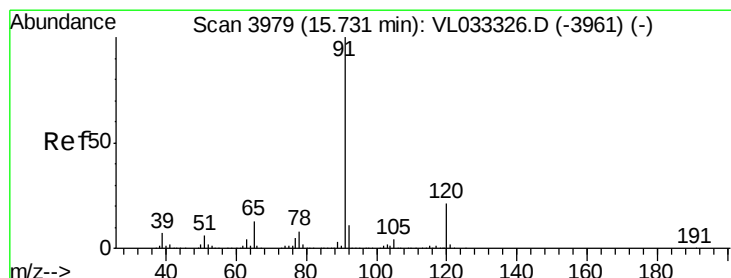
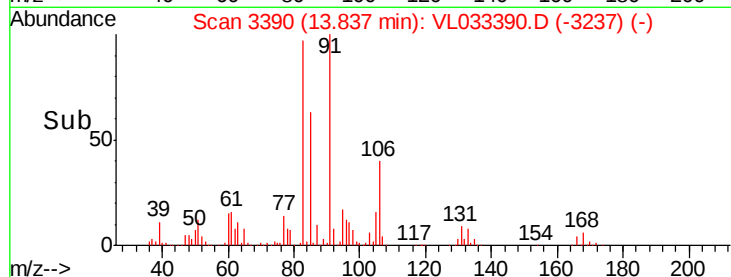
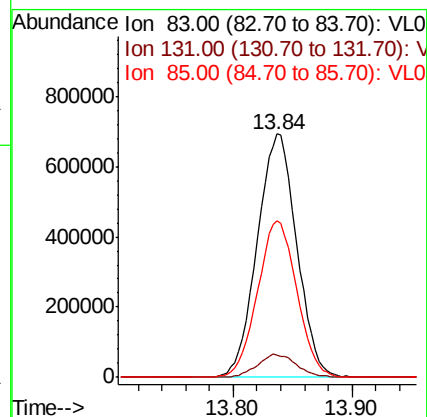
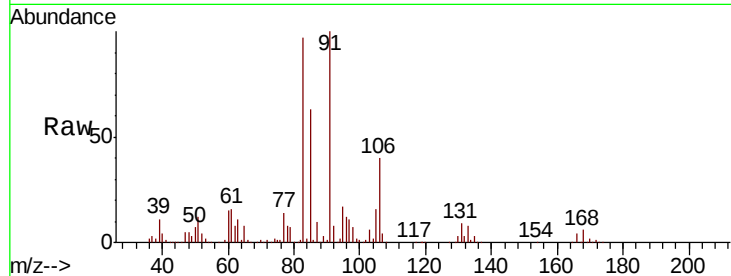
131 9.3 4.7 14.0

85 64.5 32.5 97.4

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#64

n-propylbenzene

Concen: 10.510 ppbv

RT: 15.72 min Scan# 3977

Delta R.T. -0.01 min

Lab File: VL033390.D

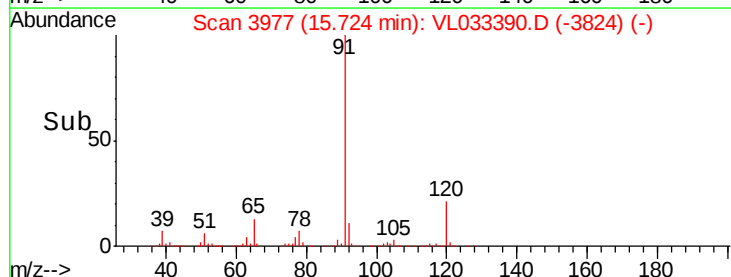
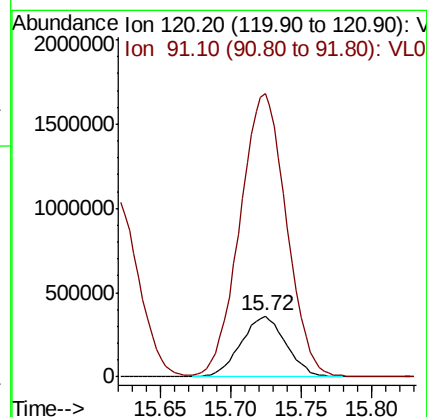
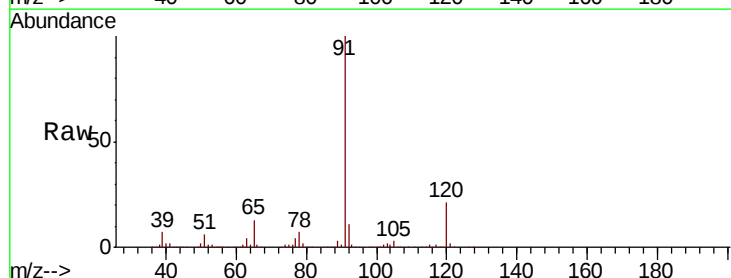
Acq: 20 Mar 2019 14:02

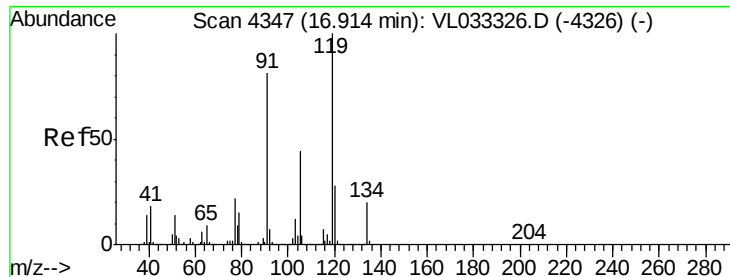
Tgt Ion:120 Resp: 803731

Ion Ratio Lower Upper

120 100

91 483.7 389.8 584.6





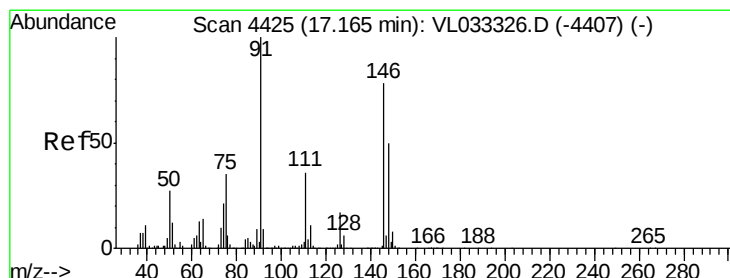
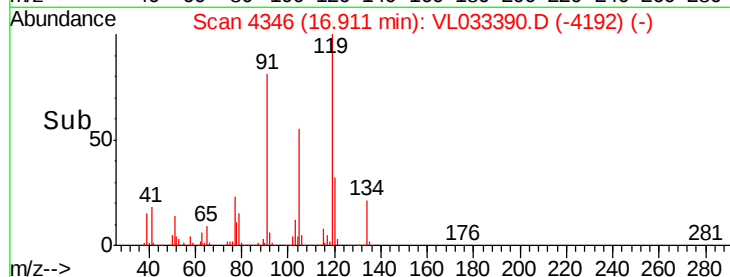
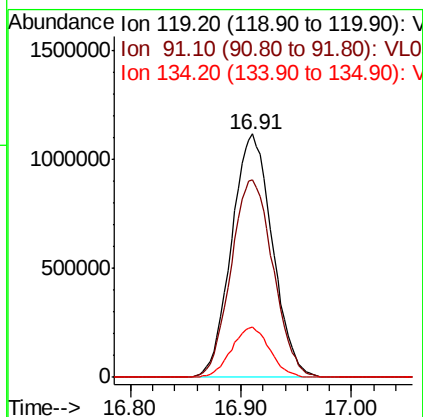
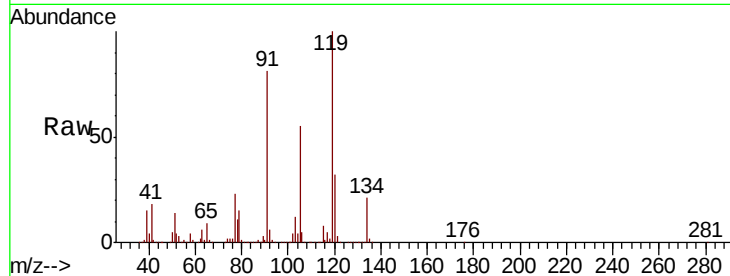
#65
tert-Butylbenzene
Concen: 10.551 ppbv
RT: 16.91 min Scan# 4346
Delta R.T. -0.00 min
Lab File: VL033390.D
Acq: 20 Mar 2019 14:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 119 Resp: 2870541
Ion Ratio Lower Upper
119 100
91 83.7 67.2 100.8
134 19.3 15.4 23.2

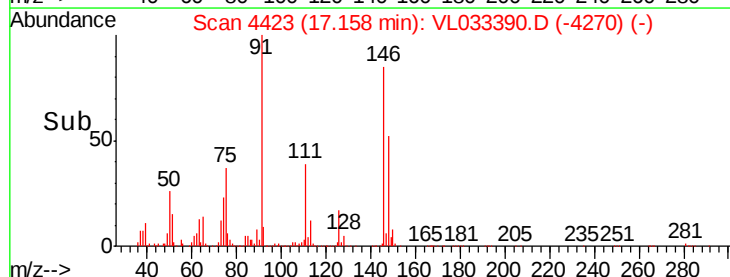
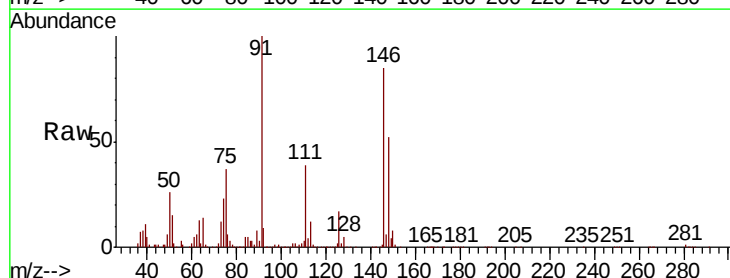
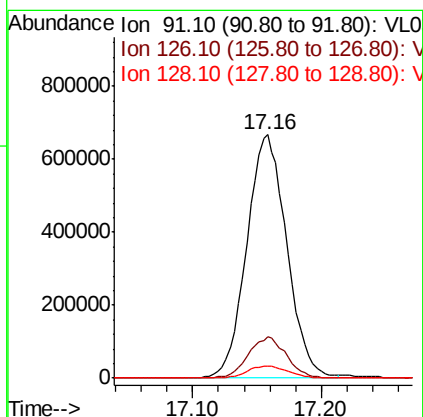
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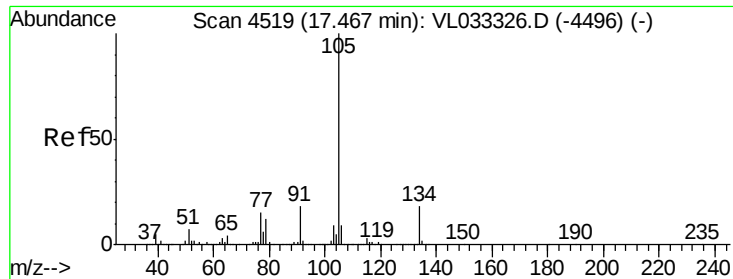
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#66
Benzyl Chloride
Concen: 12.793 ppbv
RT: 17.16 min Scan# 4423
Delta R.T. -0.01 min
Lab File: VL033390.D
Acq: 20 Mar 2019 14:02

Tgt Ion: 91 Resp: 1438387
Ion Ratio Lower Upper
91 100
126 16.3 13.2 19.8
128 5.1 4.2 6.4





#67

sec-Butylbenzene

Concen: 10.528 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. -0.01 min

Lab File: VL033390.D

Acq: 20 Mar 2019 14:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 4058698

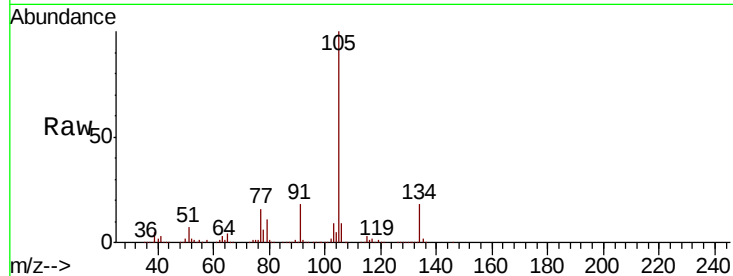
Ion Ratio Lower Upper

105 100

134 18.1 14.2 21.4

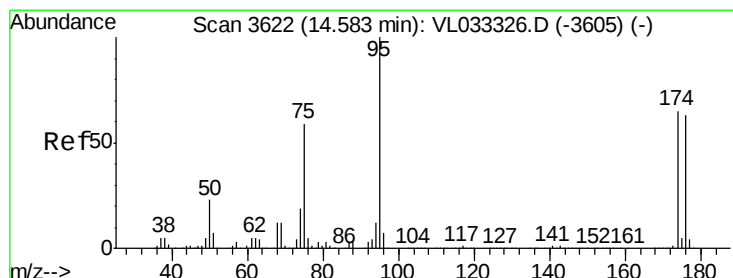
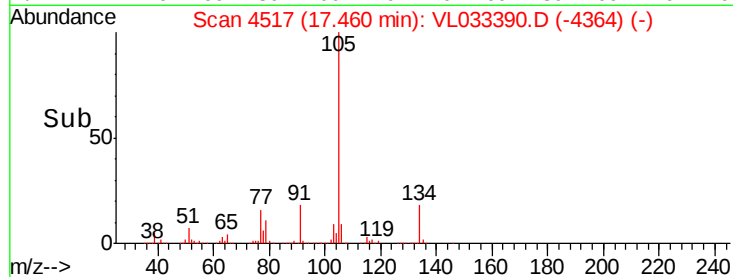
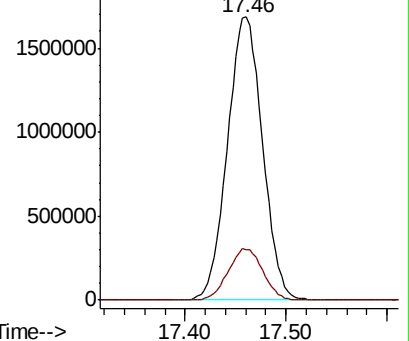
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.494 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.01 min

Lab File: VL033390.D

Acq: 20 Mar 2019 14:02

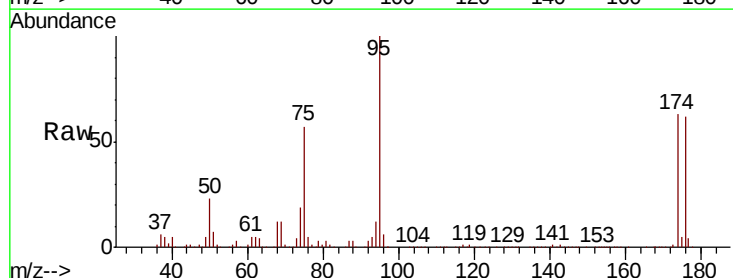
Tgt Ion: 95 Resp: 1289343

Ion Ratio Lower Upper

95 100

174 65.1 51.5 77.3

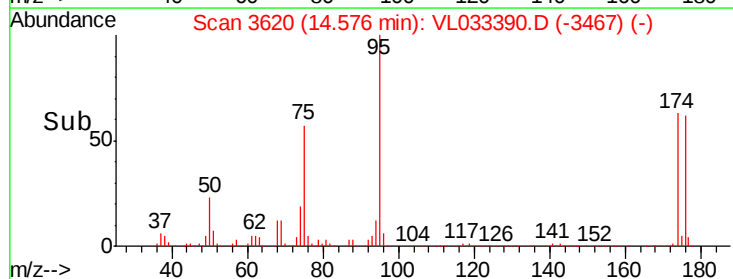
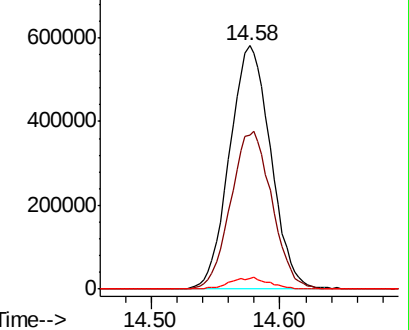
175 4.6 3.8 5.6

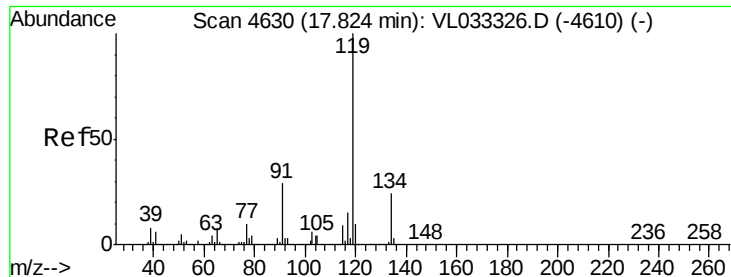


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





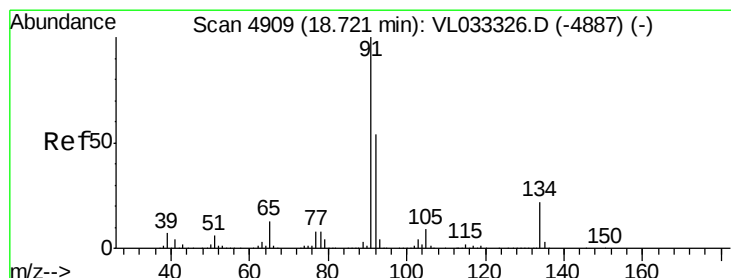
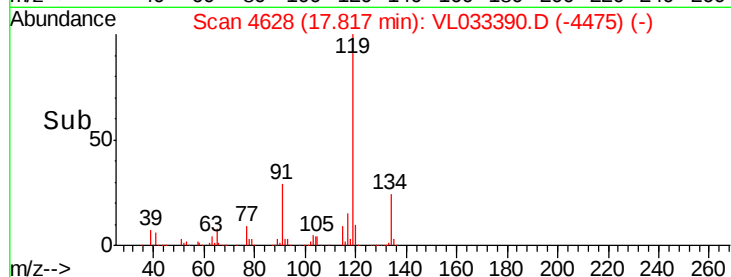
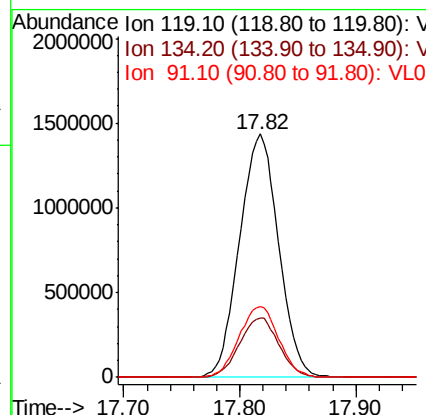
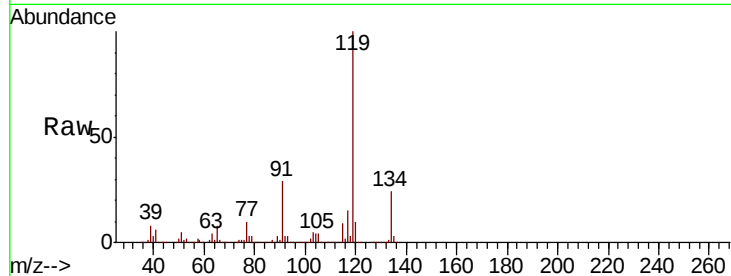
#69
 p-Isopropyltoluene
 Concen: 10.632 ppbv
 RT: 17.82 min Scan# 4628
 Delta R.T. -0.01 min
 Lab File: VL033390.D
 Acq: 20 Mar 2019 14:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.7	19.8	29.6
91	29.9	23.4	35.2

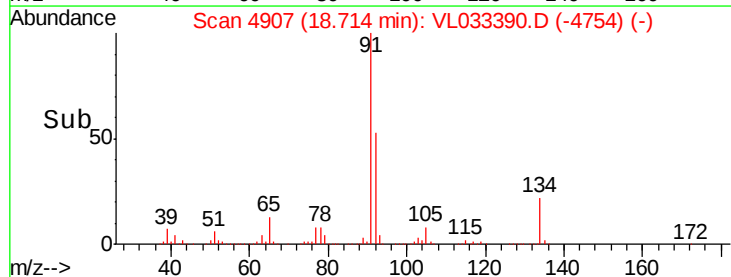
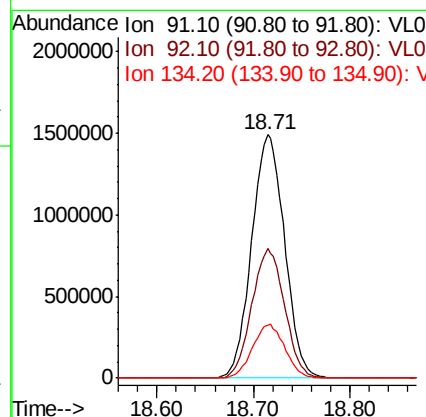
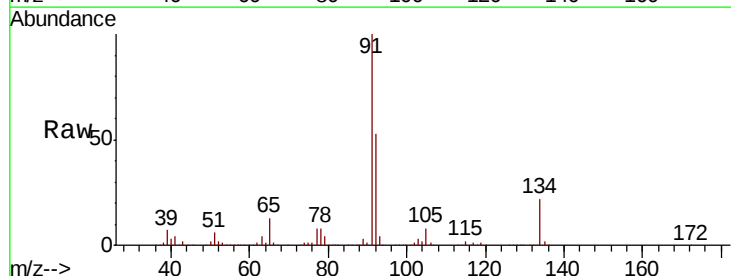
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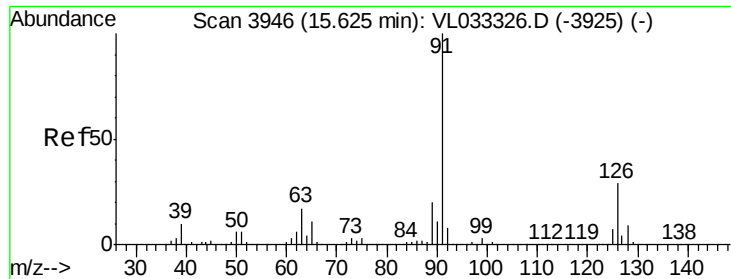
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#70
 n-Butylbenzene
 Concen: 10.473 ppbv
 RT: 18.71 min Scan# 4907
 Delta R.T. -0.01 min
 Lab File: VL033390.D
 Acq: 20 Mar 2019 14:02

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.1	42.8	64.2
134	21.8	17.4	26.0





#71

2-Chlorotoluene

Concen: 10.291 ppbv

RT: 15.62 min Scan# 3944

Delta R.T. -0.01 min

Lab File: VL033390.D

Acq: 20 Mar 2019 14:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2420949

Ion Ratio Lower Upper

91 100

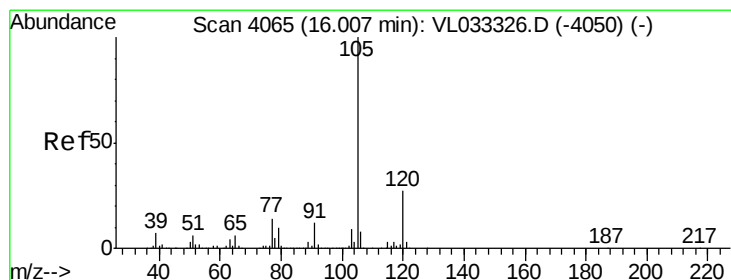
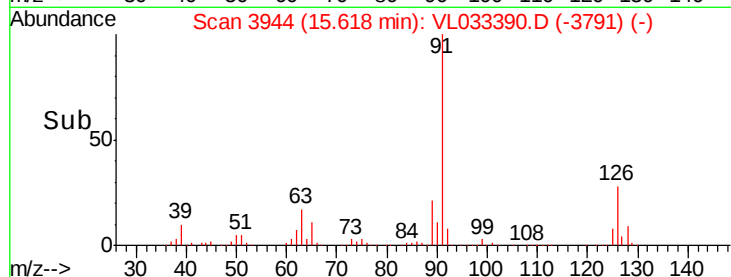
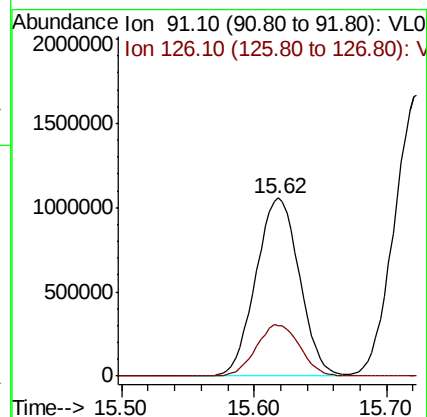
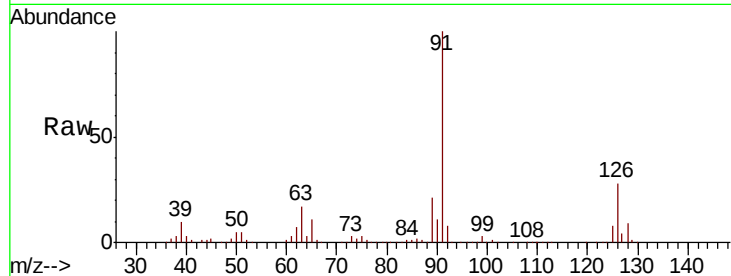
126 29.0 11.6 46.6

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#72

4-Ethyltoluene

Concen: 10.538 ppbv

RT: 16.00 min Scan# 4063

Delta R.T. -0.01 min

Lab File: VL033390.D

Acq: 20 Mar 2019 14:02

Tgt Ion:105 Resp: 2601385

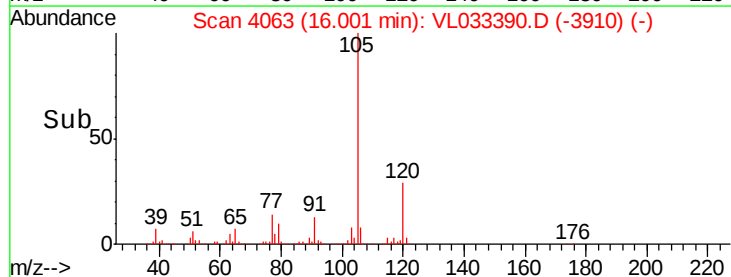
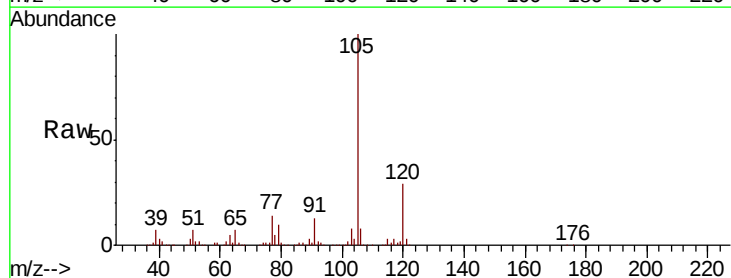
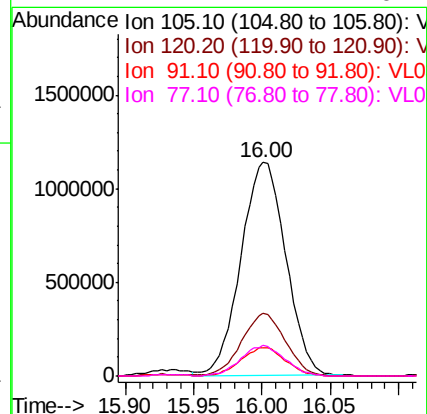
Ion Ratio Lower Upper

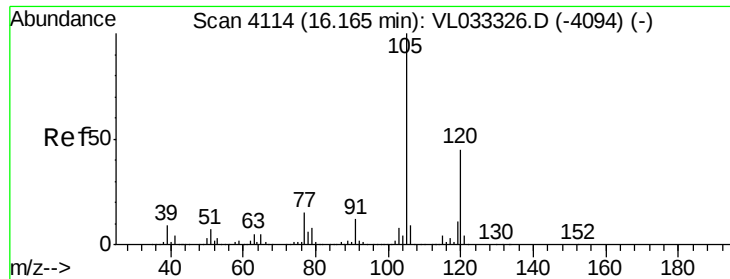
105 100

120 28.7 22.9 34.3

91 13.2 10.2 15.2

77 14.1 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 10.438 ppbv

RT: 16.16 min Scan# 4112

Delta R.T. -0.01 min

Lab File: VL033390.D

Acq: 20 Mar 2019 14:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 2510105

Ion Ratio Lower Upper

105 100

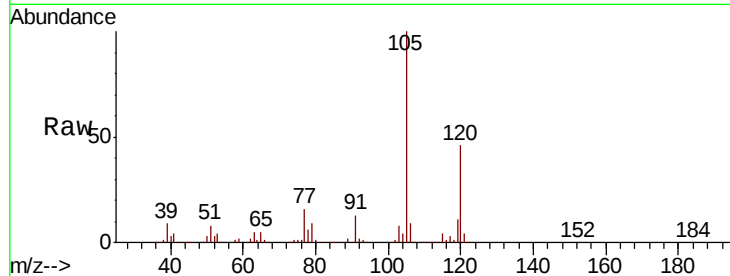
120 45.9 36.2 54.4

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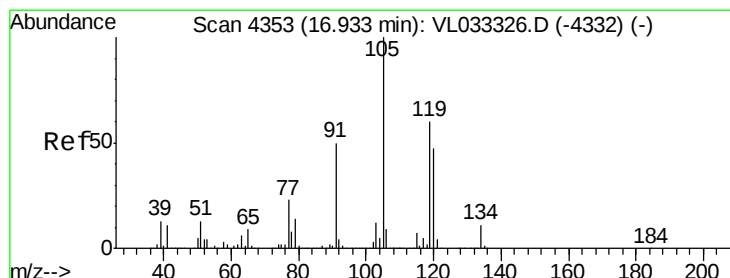
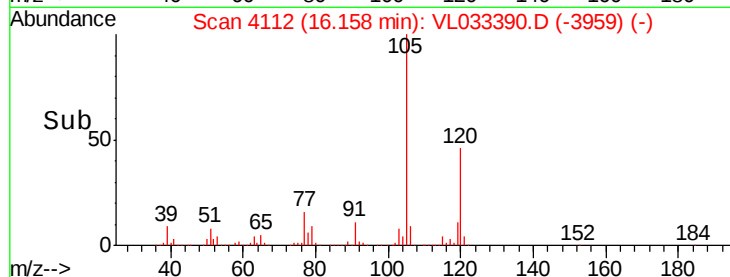
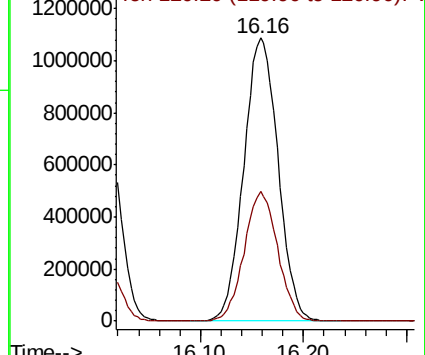
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 10.307 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. -0.00 min

Lab File: VL033390.D

Acq: 20 Mar 2019 14:02

Tgt Ion:105 Resp: 2625194

Ion Ratio Lower Upper

105 100

120 45.2 37.4 56.2

91 43.4 41.0 61.4

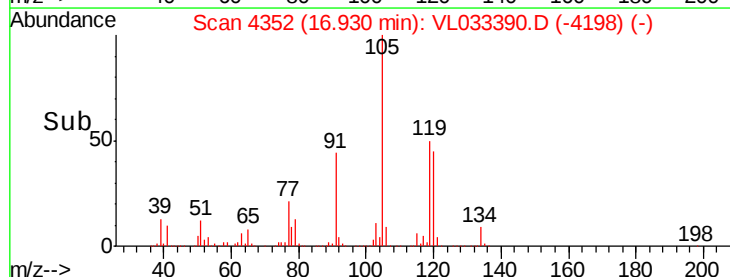
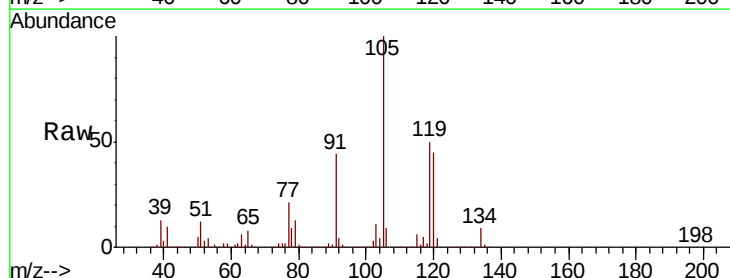
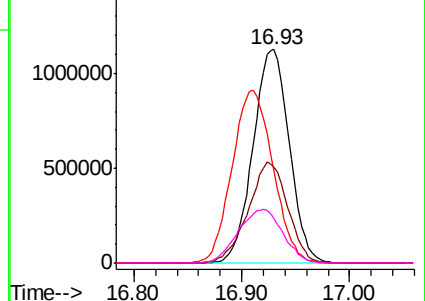
77 20.9 18.5 27.7

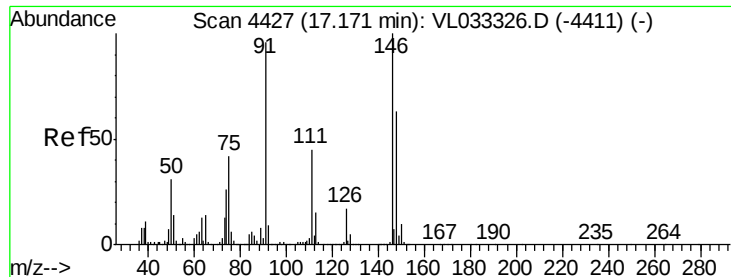
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





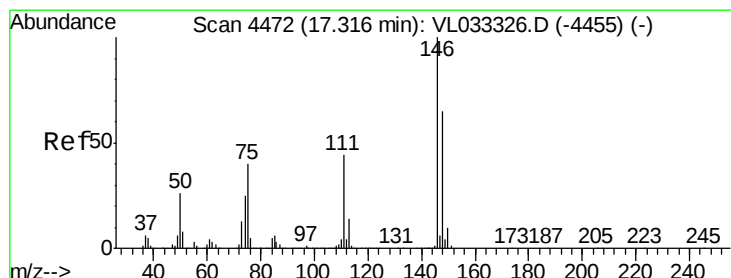
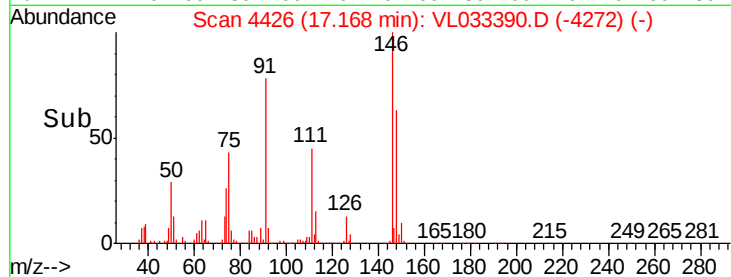
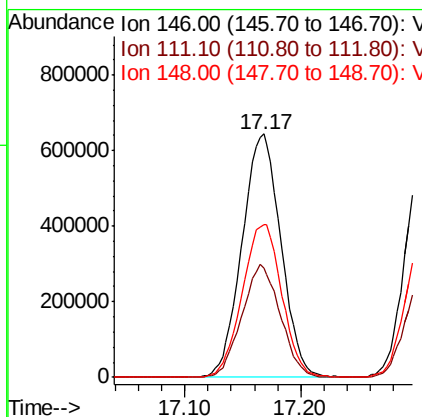
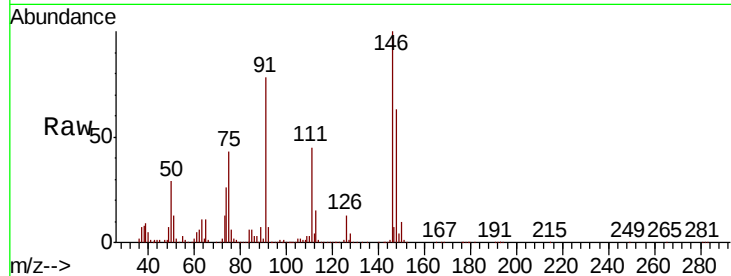
#75
 1,3-Dichlorobenzene
 Concen: 10.023 ppbv
 RT: 17.17 min Scan# 4426
 Delta R.T. -0.00 min
 Lab File: VL033390.D
 Acq: 20 Mar 2019 14:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:146 Resp: 1504507
 Ion Ratio Lower Upper
 146 100
 111 45.7 22.8 68.3
 148 63.8 31.9 95.7

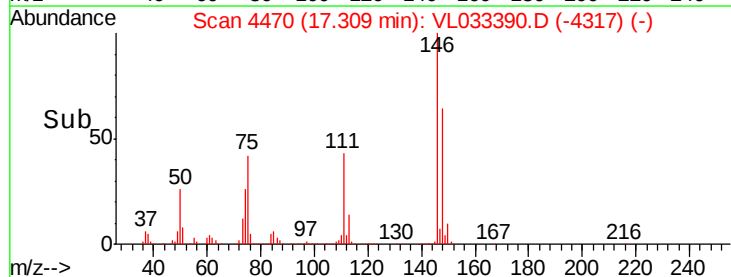
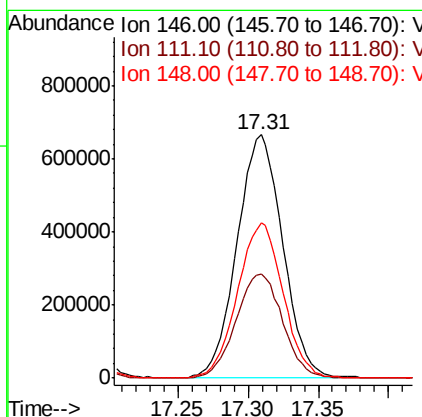
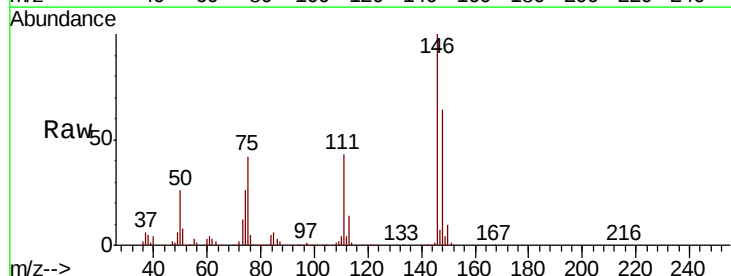
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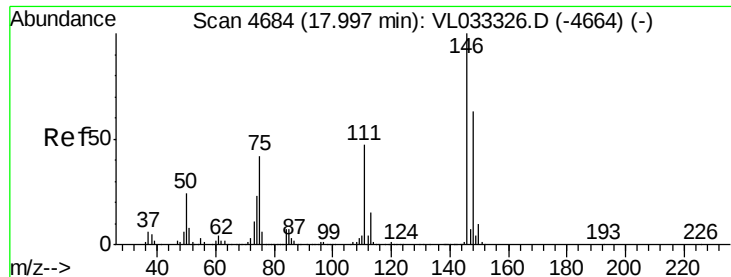
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#76
 1,4-Dichlorobenzene
 Concen: 10.285 ppbv
 RT: 17.31 min Scan# 4470
 Delta R.T. -0.01 min
 Lab File: VL033390.D
 Acq: 20 Mar 2019 14:02

Tgt Ion:146 Resp: 1494757
 Ion Ratio Lower Upper
 146 100
 111 44.3 21.9 65.7
 148 64.3 32.1 96.5





#77

1,2-Dichlorobenzene

Concen: 10.329 ppbv

RT: 17.99 min Scan# 4681

Delta R.T. -0.01 min

Lab File: VL033390.D

Acq: 20 Mar 2019 14:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 1468428

Ion Ratio Lower Upper

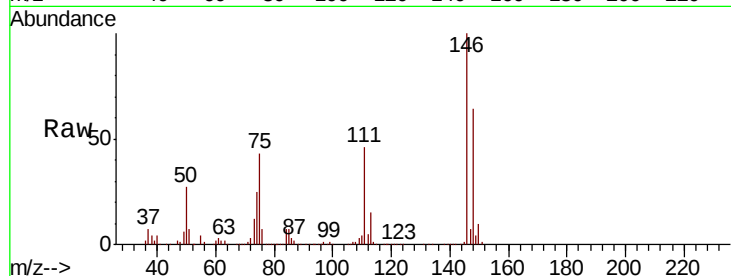
146 100

111 47.0 23.5 70.6

148 63.3 31.9 95.9

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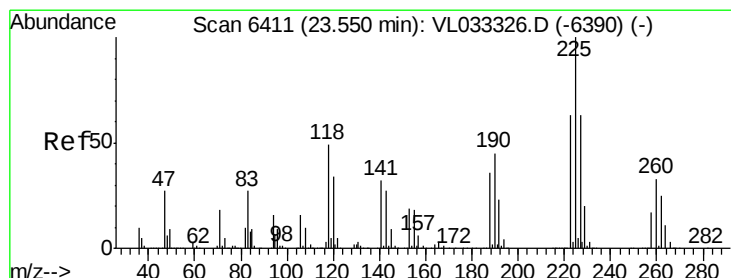
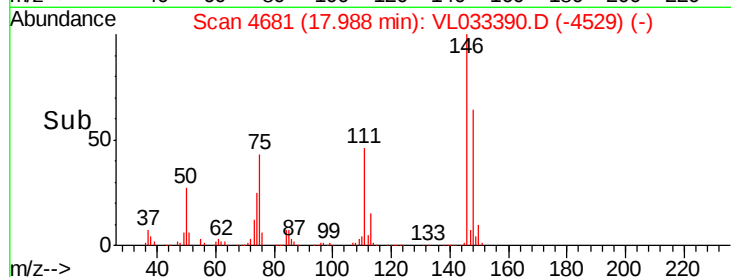
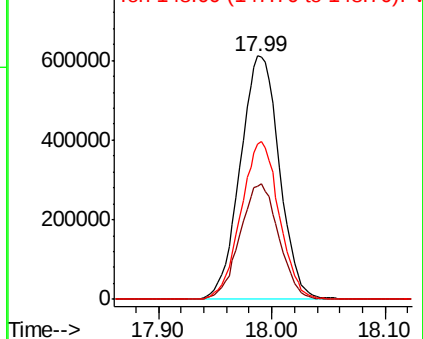


Abundance

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: 9.597 ppbv

RT: 23.54 min Scan# 6409

Delta R.T. -0.01 min

Lab File: VL033390.D

Acq: 20 Mar 2019 14:02

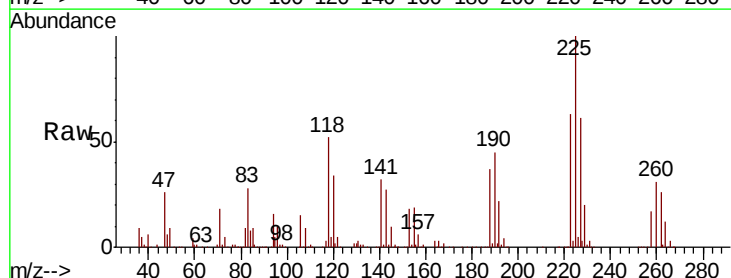
Tgt Ion:225 Resp: 818007

Ion Ratio Lower Upper

225 100

223 62.8 50.4 75.6

227 63.8 50.5 75.7

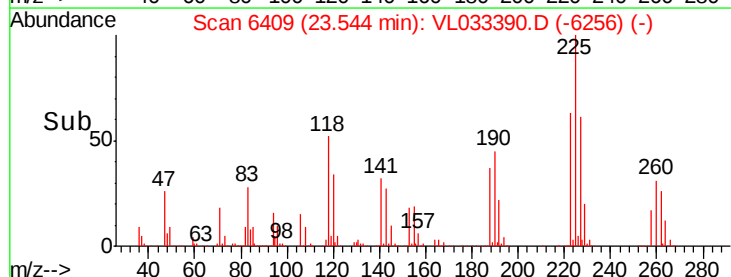
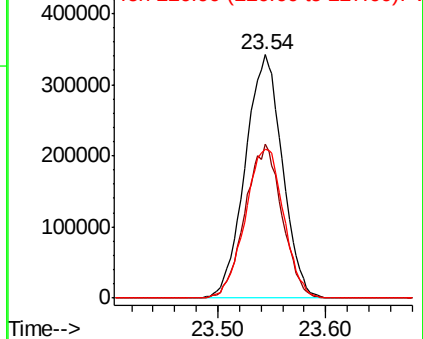


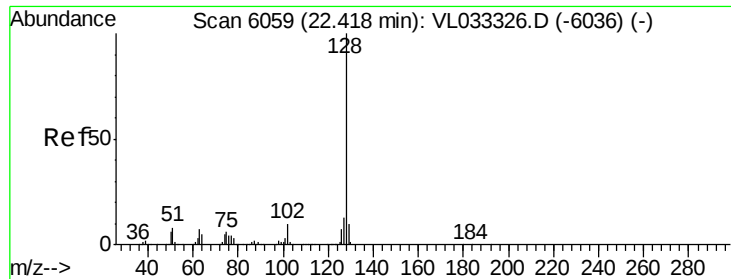
Abundance

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





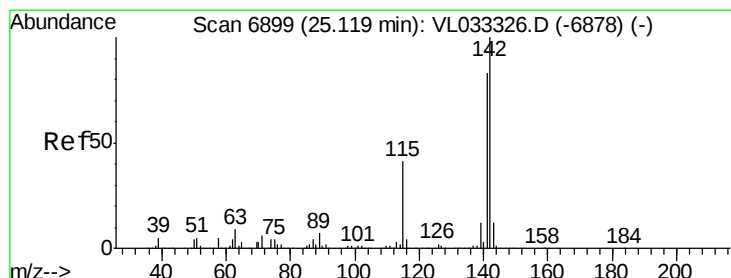
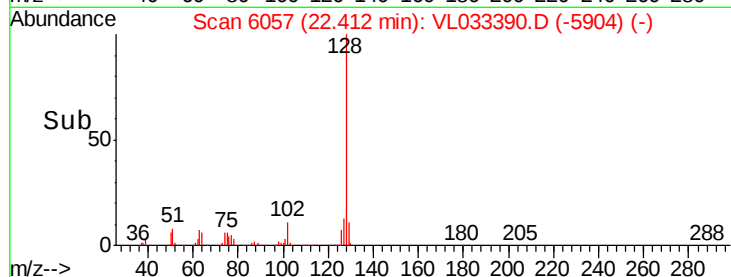
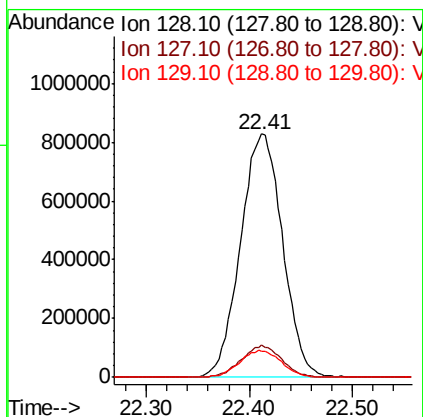
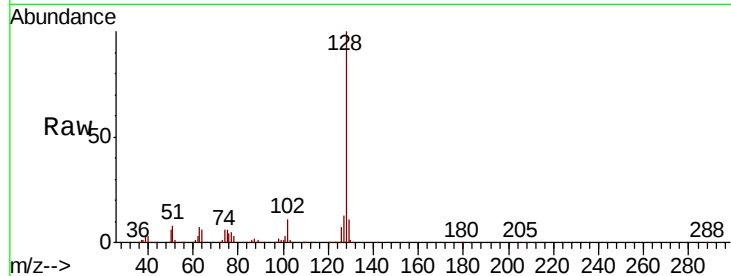
#79
Naphthalene
Concen: 9.545 ppbv
RT: 22.41 min Scan# 6057
Delta R.T. -0.01 min
Lab File: VL033390.D
Acq: 20 Mar 2019 14:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.1	15.1
129	10.8	8.2	12.2

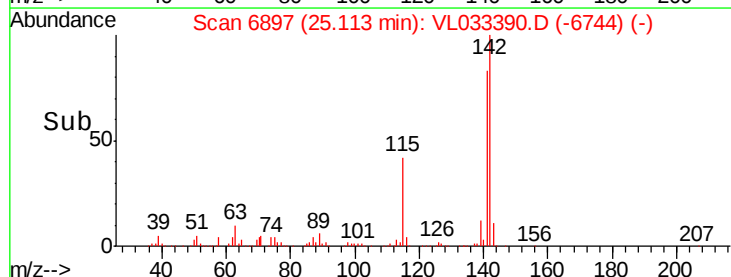
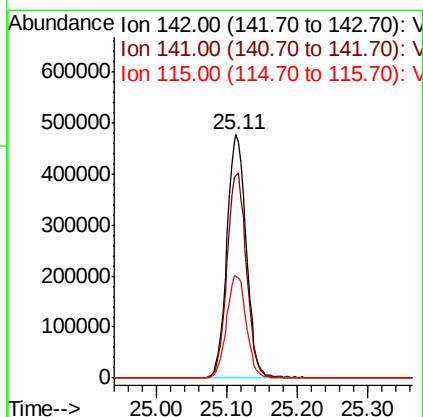
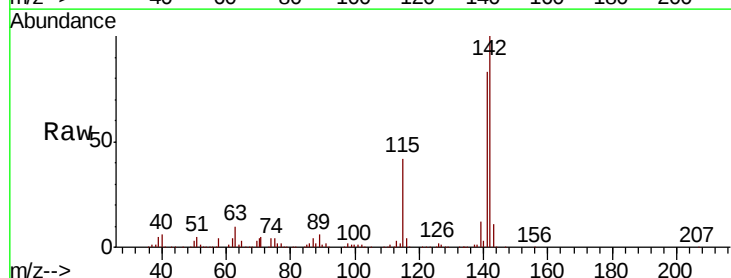
Manual Integrations
APPROVED

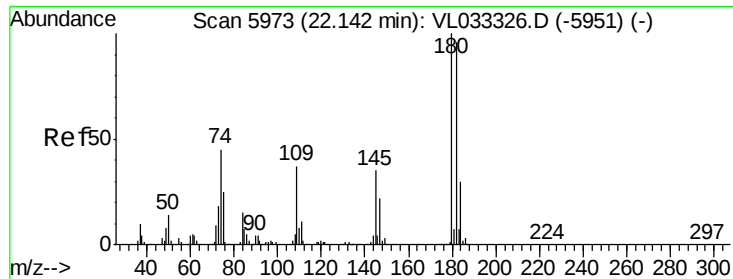
MMDadoda
3/25/2019 8:26:22 AM



#80
Naphthalene, 2-methyl-
Concen: 7.903 ppbv
RT: 25.11 min Scan# 6897
Delta R.T. -0.01 min
Lab File: VL033390.D
Acq: 20 Mar 2019 14:02

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.5	67.1	100.7
115	42.7	33.8	50.6





#81
 1,2,4-Trichlorobenzene
 Concen: 9.784 ppbv
 RT: 22.13 min Scan# 5970
 Delta R.T. -0.01 min
 Lab File: VL033390.D
 Acq: 20 Mar 2019 14:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.1	114.1
184	30.6	24.6	37.0

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 8:26:22 AM

