

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL011619\
 Data File : VL033109.D
 Acq On : 17 Jan 2019 2:34
 Operator : SY/AP
 Sample : IDOC-2
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IDOC-2

Manual Integrations
 APPROVED

sam
 1/21/2019 8:51:06 AM

Quant Time: Jan 17 04:07:30 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL010419AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan 0

QLast Update : Fri Jan 04 16:09:05 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1125236	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2797781	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2758764	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2043332	9.66	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.60%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.07	85	2334956	11.150	ppbv	100
3) Chlorodifluoromethane	3.01	51	1293452	10.155	ppbv	99
4) Chloromethane	3.17	50	712500	9.766	ppbv	97
5) Vinyl Chloride	3.29	62	725701	9.849	ppbv	100
6) Bromomethane	3.51	94	473237	9.455	ppbv	100
7) Chloroethane	3.60	64	280660	9.741	ppbv	97
8) Dichlorotetrafluoroethane	3.22	85	1807859	10.022	ppbv	99
9) Propene	3.04	41	531116	11.162	ppbv	99
10) Heptane	8.25	43	1356507	10.013	ppbv	100
11) Trichlorofluoromethane	4.00	101	1940220	8.385	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1324611	9.053	ppbv	99
13) Ethanol	3.64	45	101600	5.354	ppbv	95
14) Bromoethene	3.79	108	612209	9.473	ppbv	99
15) Acetone	3.90	43	1413841	9.078	ppbv	99
16) 1,3-Butadiene	3.36	39	617605	10.516	ppbv	98
17) tert-Butyl alcohol	4.36	59	289529	8.776	ppbv	99
18) 1,1-Dichloroethene	4.35	96	620982	9.214	ppbv	98
19) Isopropyl Alcohol	4.02	45	720445	6.719	ppbv #	99
20) Methylene Chloride	4.41	84	521464	8.031	ppbv	97
21) Allyl Chloride	4.48	41	958955	9.936	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	618780	9.262	ppbv	96
23) Vinyl Acetate	5.15	43	2020127	10.196	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1525736	9.069	ppbv	99
25) Ethyl Acetate	5.77	43	2388197	9.072	ppbv	100
26) Hexane	5.78	57	1133950	9.148	ppbv	98
27) Carbon Disulfide	4.62	76	1540535	10.077	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1871327	9.671	ppbv	100
29) Chloroform	5.85	83	1860203	8.806	ppbv	99
30) Cyclohexane	7.25	84	949600	10.274	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1162608	10.100	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	1949056	9.091	ppbv	100
34) 2-Butanone	5.33	43	1563262	9.617	ppbv	99
35) Carbon Tetrachloride	7.13	117	2143408	8.919	ppbv	99
36) Benzene	7.00	78	2285649	9.973	ppbv	98
37) 1,2-Dichloroethane	6.41	62	1430273	8.939	ppbv	100
38) Trichloroethene	7.96	130	942337	9.995	ppbv	97
39) 1,2-Dichloropropane	7.74	63	830868	9.651	ppbv	98
40) 1,4-Dioxane	7.95	88	297998	9.118	ppbv	90
41) Tetrahydrofuran	6.15	42	848875	10.260	ppbv	98
42) Bromodichloromethane	7.92	83	2005802	9.125	ppbv	99
43) Methyl Methacrylate	8.14	69	895060	10.408	ppbv	99

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 1/21/2019 8:51:06 AM

Quant Time: Jan 17 04:07:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan 0
 QLast Update : Fri Jan 04 16:09:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3774773	9.726	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1202526	11.234	ppbv	99
46) cis-1,3-Dichloropropene	8.83	75	1390522	11.381	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	928087	9.227	ppbv	98
48) Dibromochloromethane	10.45	129	1677276	9.438	ppbv	99
49) Bromoform	13.20	173	1378038	8.875	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2132017	10.351	ppbv	100
51) 2-Hexanone	10.27	43	1574482	10.564	ppbv	100
52) Tetrachloroethene	11.37	164	796334	9.830	ppbv	98
53) Toluene	9.95	91	2586872	10.533	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1397213	9.641	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.28	131	1210111	8.489	ppbv	98
57) Chlorobenzene	12.30	112	1970299	8.556	ppbv	97
58) Ethyl Benzene	12.86	91	3408427	9.785	ppbv	98
59) m/p-Xylene	13.15	91	5774954m	17.922	ppbv	
60) o-Xylene	13.85	91	2816242	8.928	ppbv	99
61) Styrene	13.69	104	2068593	10.277	ppbv	100
62) Isopropylbenzene	14.83	105	3906792	8.703	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1878762	8.018	ppbv	99
64) n-propylbenzene	15.72	120	992106	8.700	ppbv	98
65) tert-Butylbenzene	16.91	119	3461389	8.705	ppbv	99
66) Benzyl Chloride	17.15	91	2007370	8.857	ppbv	100
67) sec-Butylbenzene	17.46	105	4898059	8.607	ppbv	99
69) p-Isopropyltoluene	17.82	119	4126263	8.934	ppbv	100
70) n-Butylbenzene	18.71	91	4279746	9.218	ppbv	100
71) 2-Chlorotoluene	15.61	91	2886463	9.066	ppbv	99
72) 4-Ethyltoluene	16.00	105	3182659	9.181	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3022797	8.838	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	3187780	8.415	ppbv	95
75) 1,3-Dichlorobenzene	17.16	146	1845094	8.275	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1805867	8.891	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1789217	8.910	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1170189	7.587	ppbv	99
79) Naphthalene	22.41	128	3774827	11.831	ppbv	98
80) Naphthalene,2-methyl-	25.12	142	853289	8.812	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1758962	11.411	ppbv	99

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

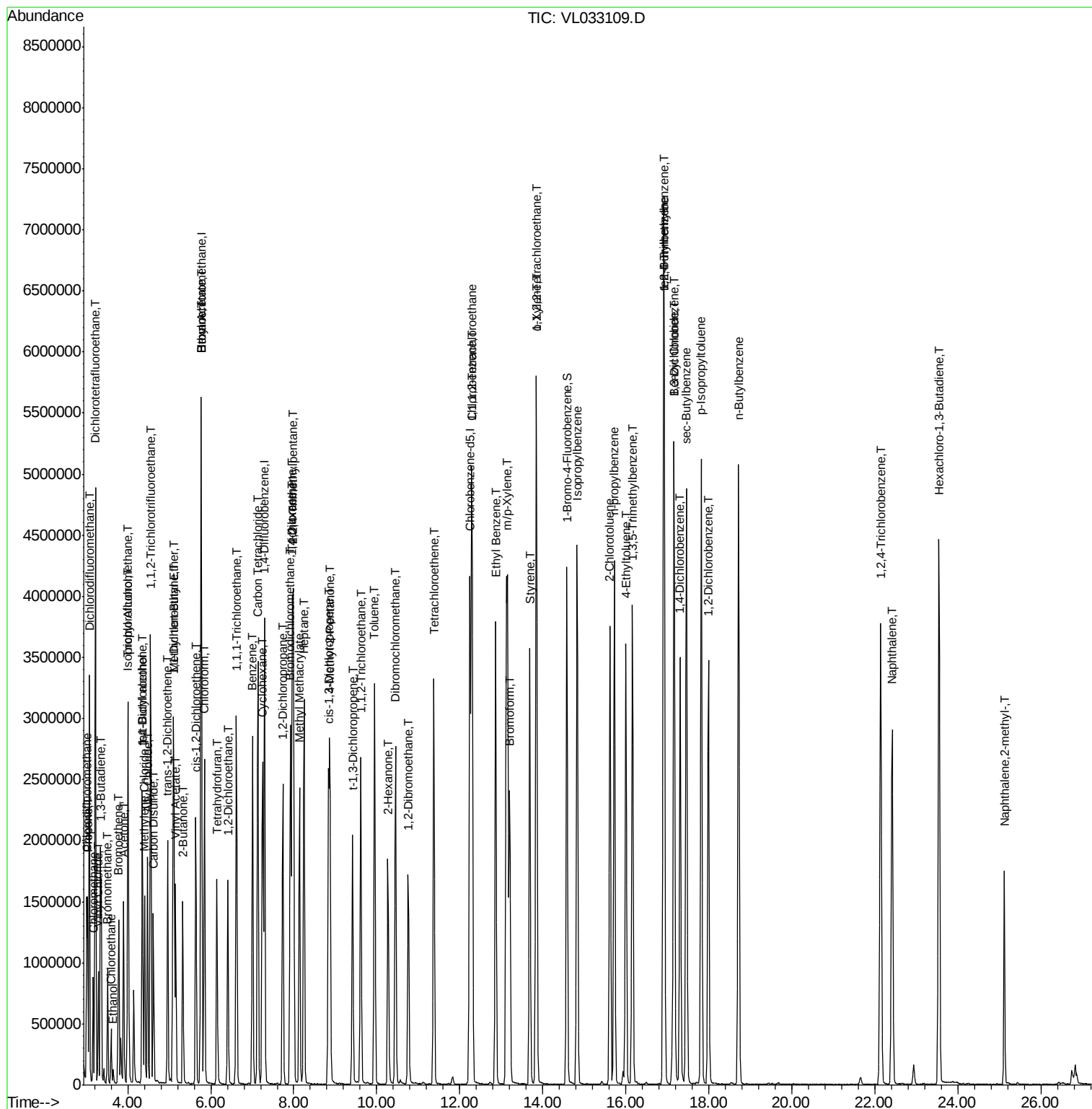
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL011619\
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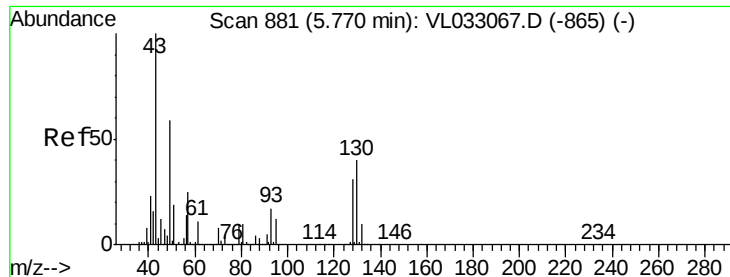
Instrument :
MSVOA_L
ClientSampled :
IDOC-2

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan
QLast Update : Fri Jan 04 16:09:05 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.01 min

Lab File: VL033109.D

Acq: 17 Jan 2019 2:34

Instrument :

MSVOA_L

ClientSampleId :

IDOC-2

Tgt Ion: 49 Resp: 1125236

Ion Ratio Lower Upper

49 100

128 52.7 26.2 78.5

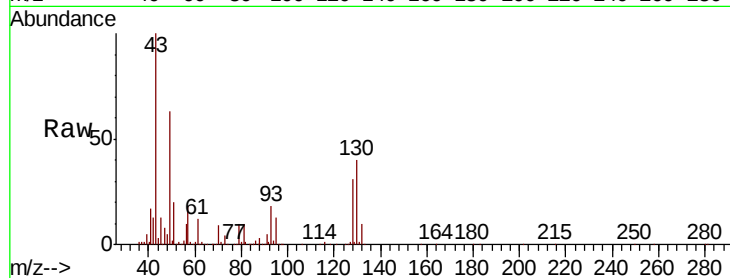
130 66.5 33.6 100.6

Manual Integrations

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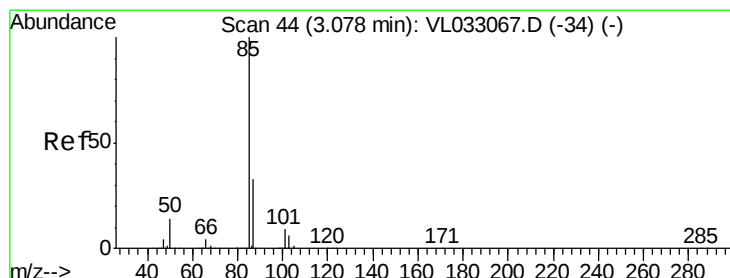
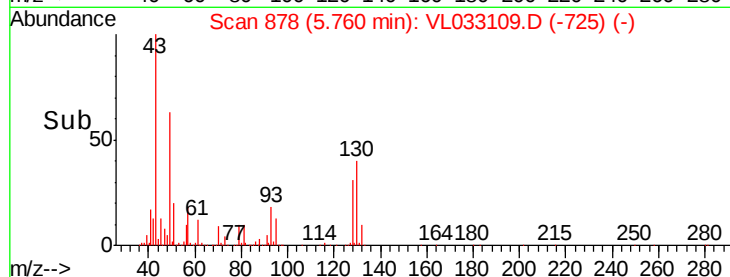
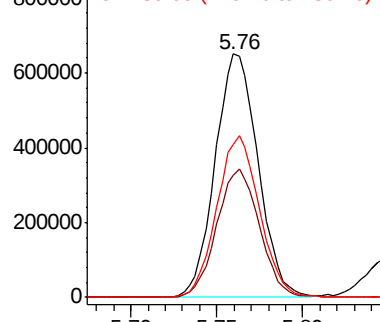
1/21/2019 8:51:06 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 11.150 ppbv

RT: 3.07 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033109.D

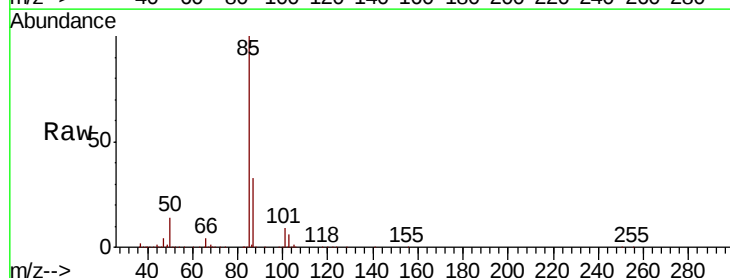
Acq: 17 Jan 2019 2:34

Tgt Ion: 85 Resp: 2334956

Ion Ratio Lower Upper

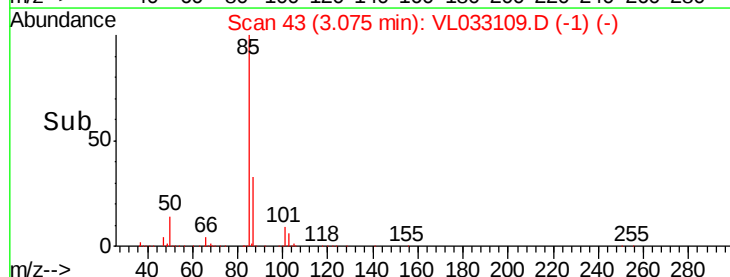
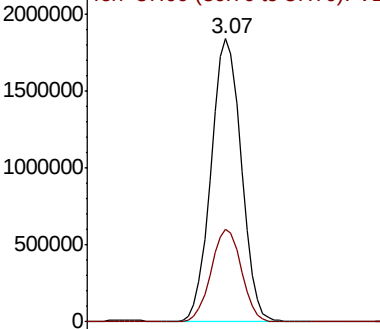
85 100

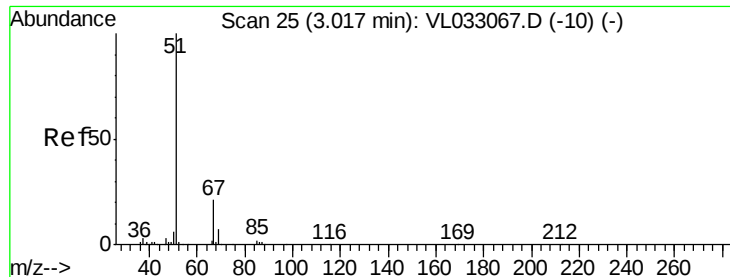
87 32.7 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 10.155 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033109.D

Acq: 17 Jan 2019 2:34

Instrument :

MSVOA_L

ClientSampled :

IDOC-2

Tgt Ion: 51 Resp: 1293452

Ion Ratio Lower Upper

51 100

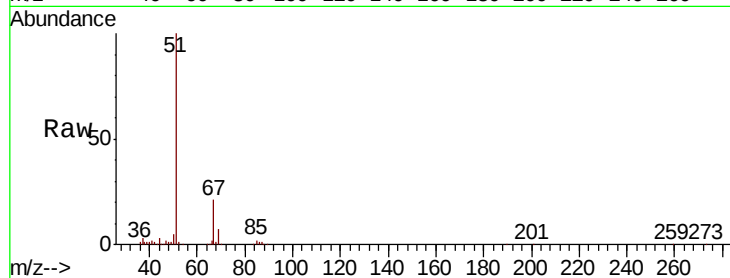
67 19.9 16.3 24.5

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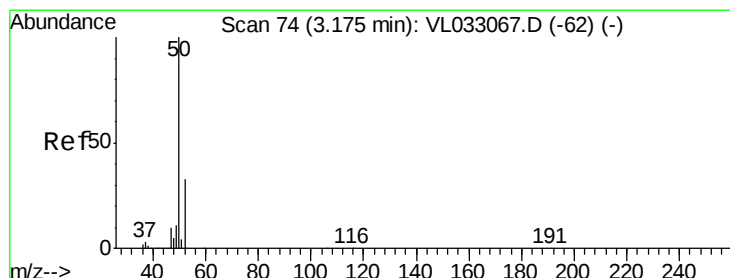
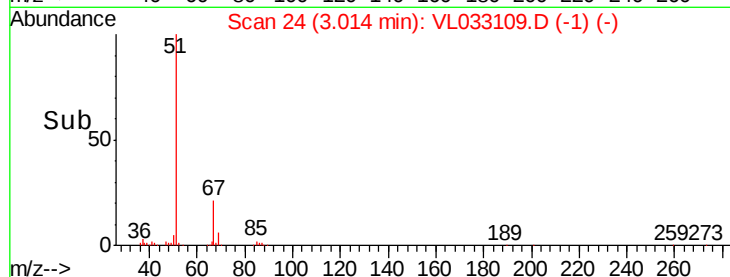
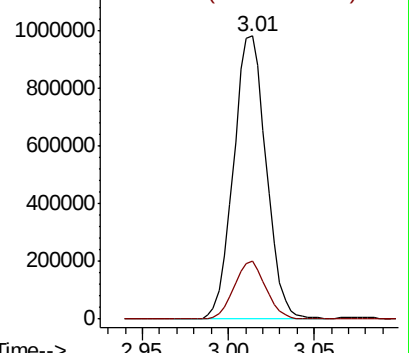
sam

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.766 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033109.D

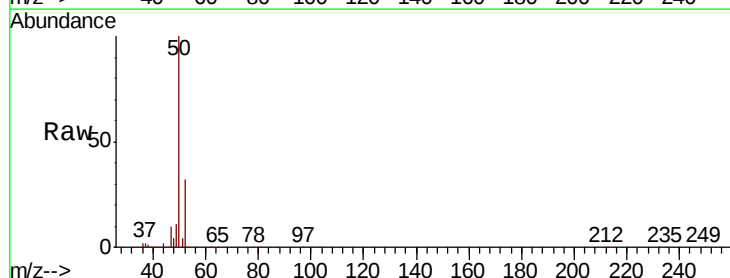
Acq: 17 Jan 2019 2:34

Tgt Ion: 50 Resp: 712500

Ion Ratio Lower Upper

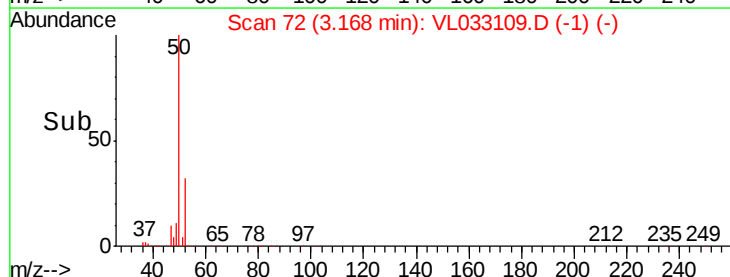
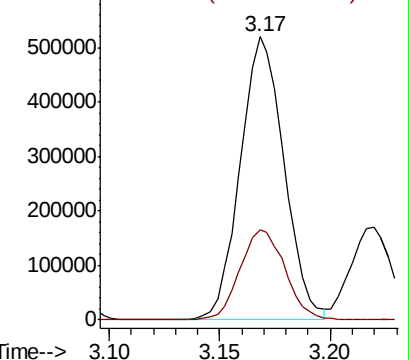
50 100

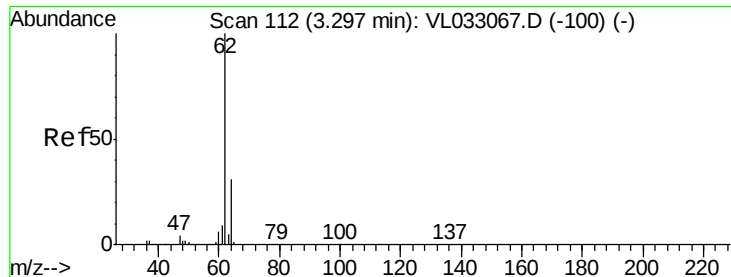
52 31.6 26.9 40.3



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.849 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033109.D

Acq: 17 Jan 2019 2:34

Instrument :

MSVOA_L

ClientSampleId :

IDOC-2

Tgt Ion: 62 Resp: 725701

Ion Ratio Lower Upper

62 100

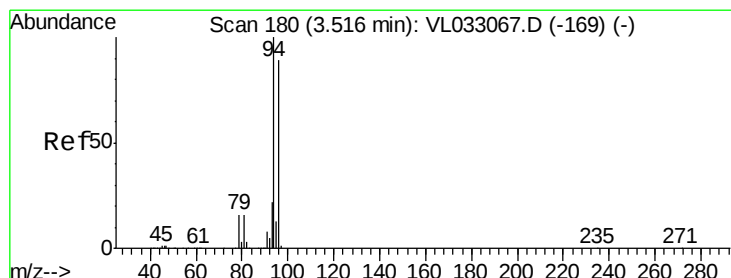
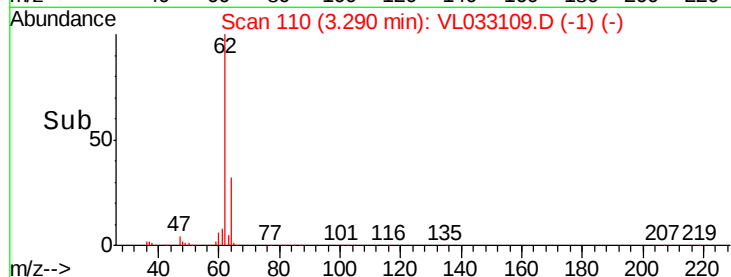
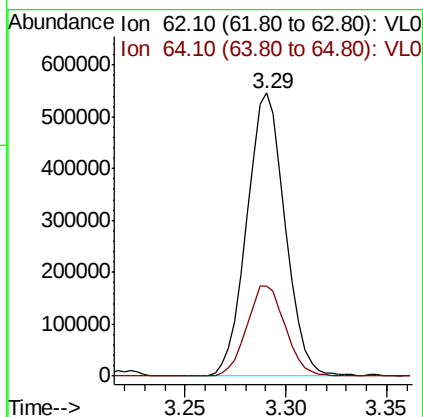
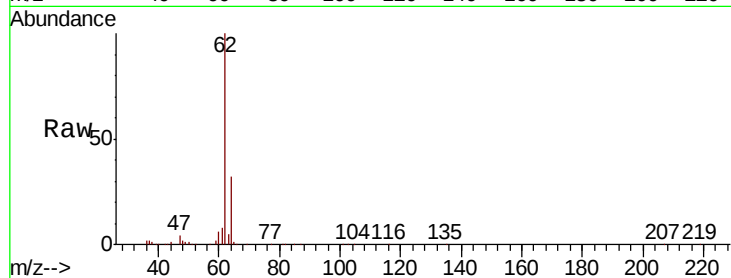
64 31.9 25.3 37.9

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#6

Bromomethane

Concen: 9.455 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033109.D

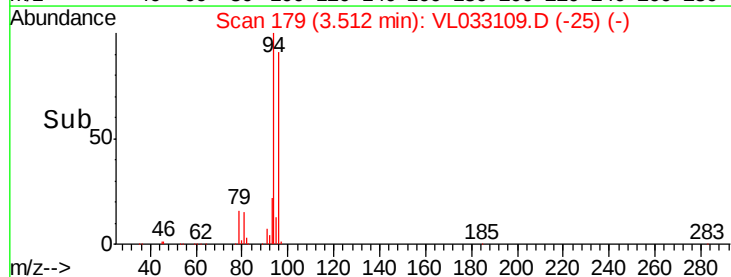
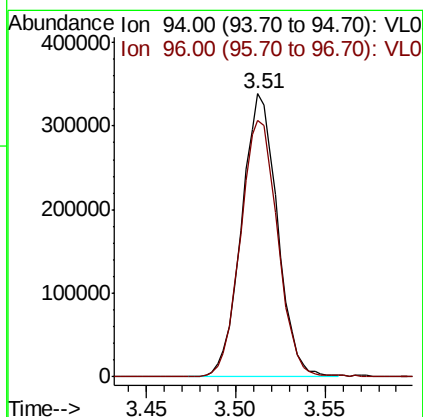
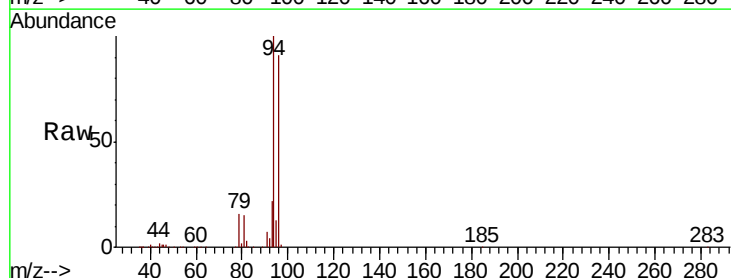
Acq: 17 Jan 2019 2:34

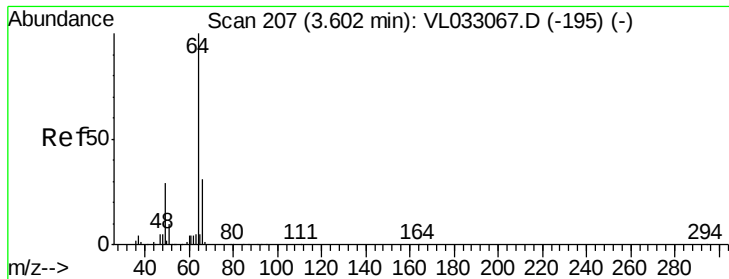
Tgt Ion: 94 Resp: 473237

Ion Ratio Lower Upper

94 100

96 90.6 72.8 109.2





#7

Chloroethane

Concen: 9.741 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033109.D

Acq: 17 Jan 2019 2:34

Instrument :

MSVOA_L

ClientSampleId :

IDOC-2

Tgt Ion: 64 Resp: 280660

Ion Ratio Lower Upper

64 100

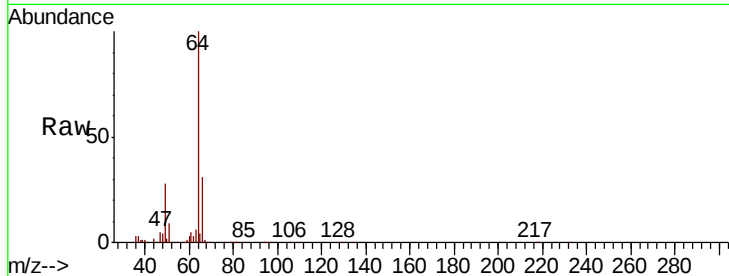
66 31.0 23.7 35.5

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

250000

200000

150000

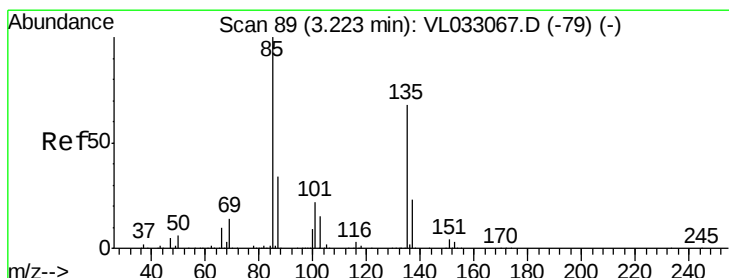
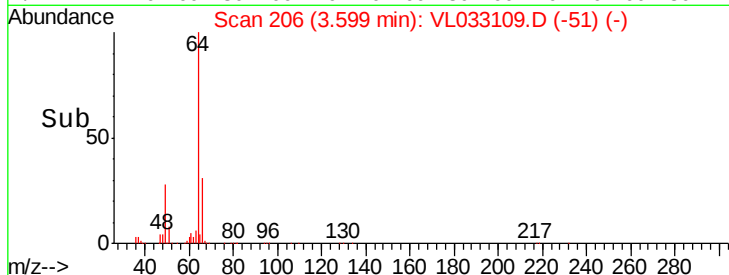
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50000

0

3.55 3.60 3.65

Time-->



#8

Dichlorotetrafluoroethane

Concen: 10.022 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033109.D

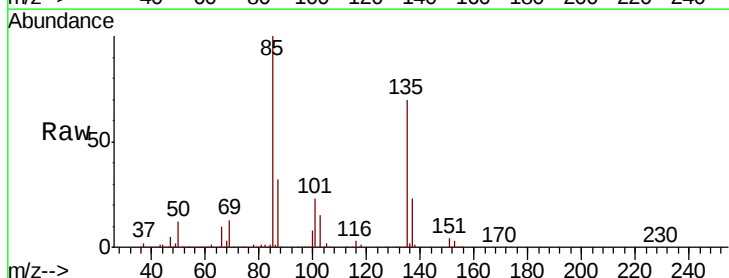
Acq: 17 Jan 2019 2:34

Tgt Ion: 85 Resp: 1807859

Ion Ratio Lower Upper

85 100

135 69.1 54.9 82.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1500000

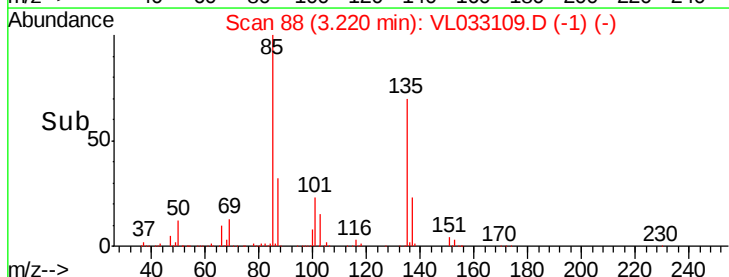
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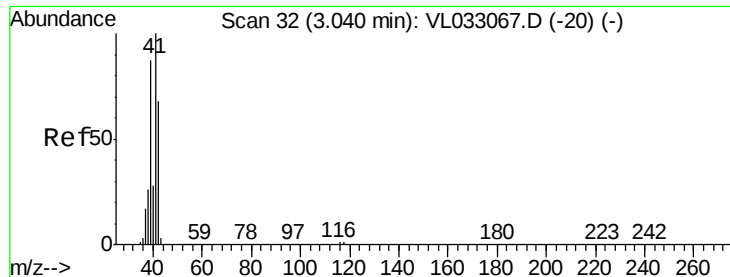
500000

0

3.15 3.20 3.25

Time-->





#9

Propene

Concen: 11.162 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033109.D

Acq: 17 Jan 2019 2:34

Instrument :

MSVOA_L

ClientSampleId :

IDOC-2

Tgt Ion: 41 Resp: 531116

Ion Ratio Lower Upper

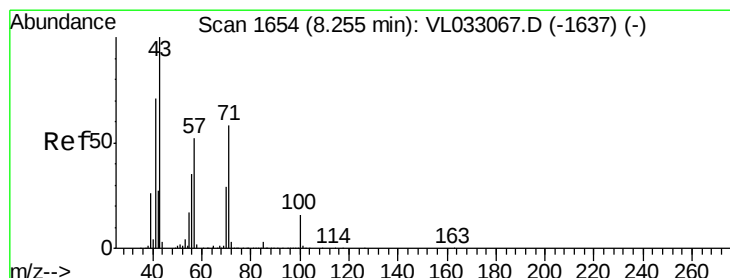
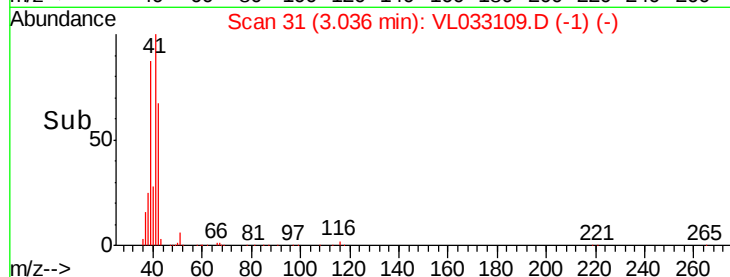
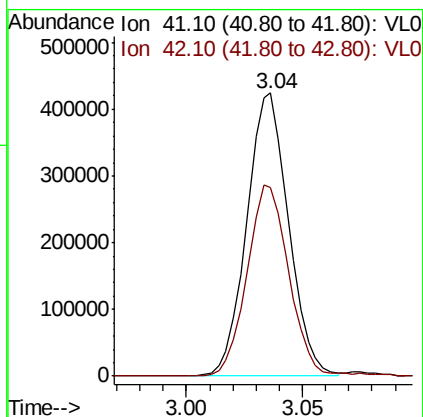
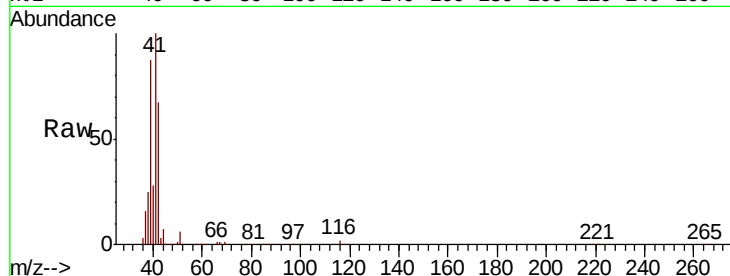
41 100

42 68.4 55.3 82.9

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#10

Heptane

Concen: 10.013 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. -0.00 min

Lab File: VL033109.D

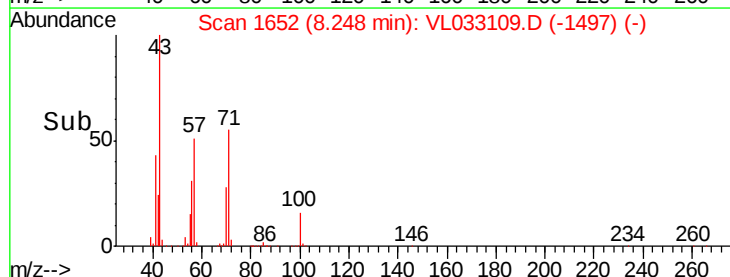
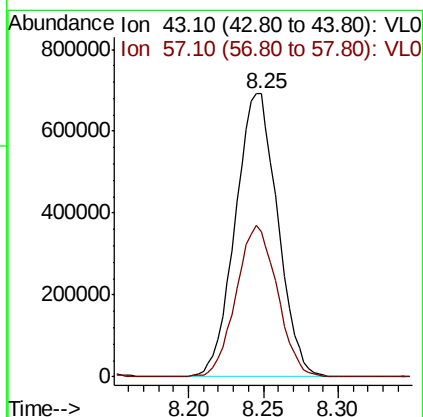
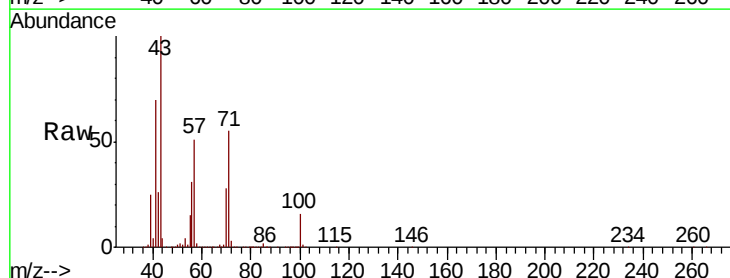
Acq: 17 Jan 2019 2:34

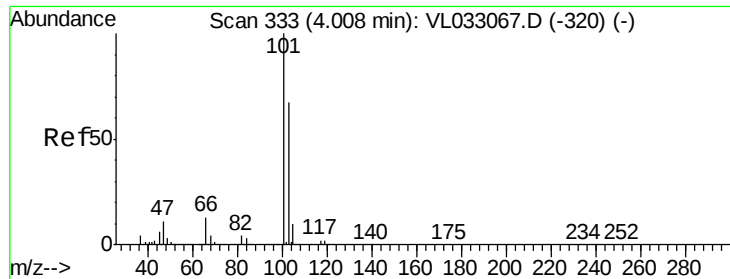
Tgt Ion: 43 Resp: 1356507

Ion Ratio Lower Upper

43 100

57 52.4 41.9 62.9





#11

Trichlorofluoromethane

Concen: 8.385 ppbv

RT: 4.00 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL033109.D

Acq: 17 Jan 2019 2:34

Instrument :

MSVOA_L

ClientSampled :

IDOC-2

Tgt Ion:101 Resp: 1940220

Ion Ratio Lower Upper

101 100

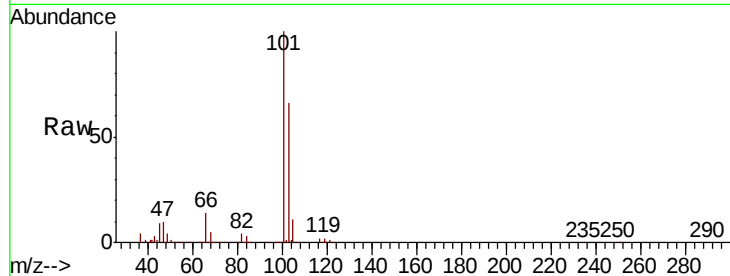
103 65.6 51.7 77.5

Manual Integrations

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

1500000

4.00

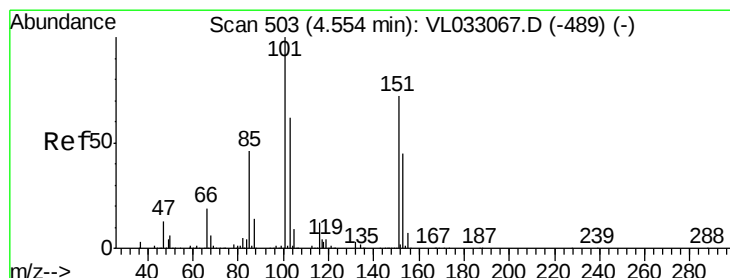
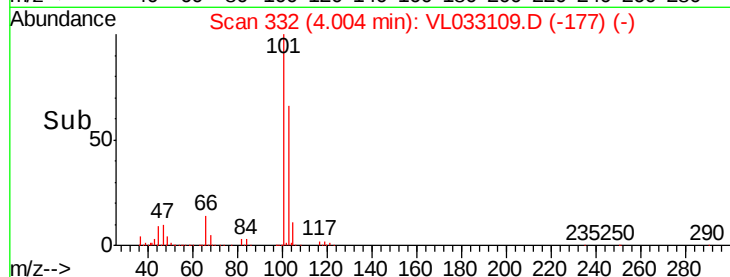
1000000

500000

0

Time-->

3.95 4.00 4.05



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.053 ppbv

RT: 4.55 min Scan# 502

Delta R.T. -0.00 min

Lab File: VL033109.D

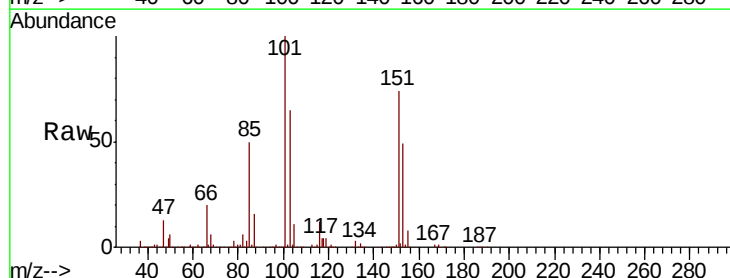
Acq: 17 Jan 2019 2:34

Tgt Ion:101 Resp: 1324611

Ion Ratio Lower Upper

101 100

151 72.4 58.3 87.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

800000

4.55

600000

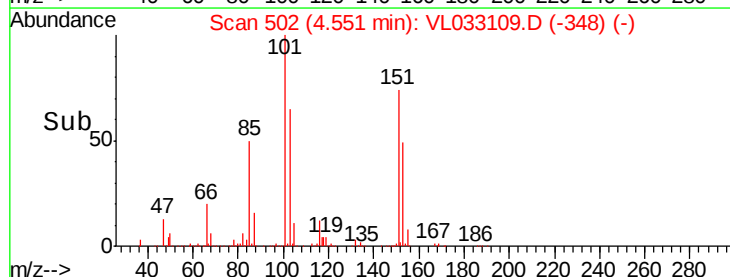
400000

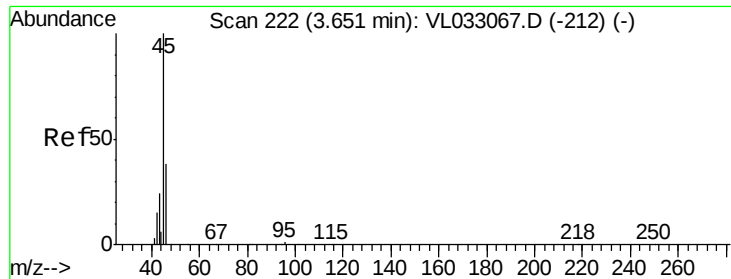
200000

0

Time-->

4.50 4.55 4.60





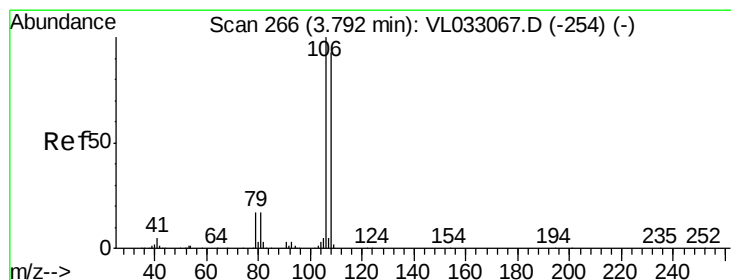
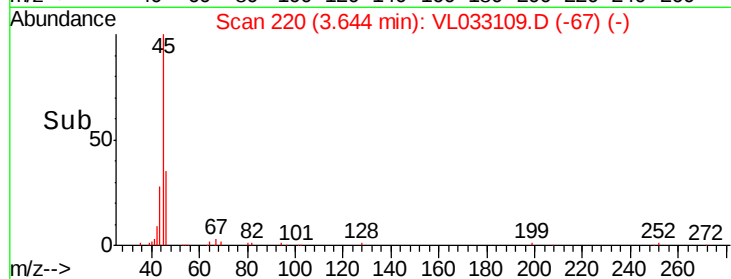
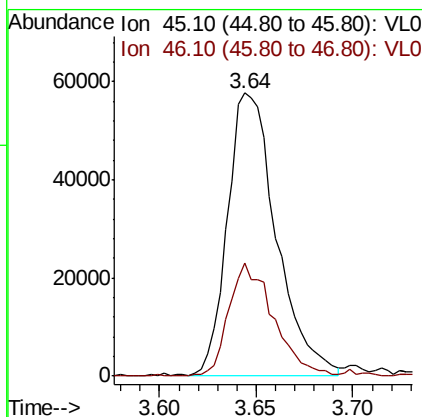
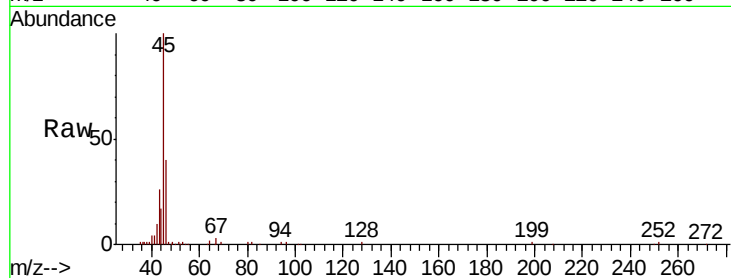
#13
Ethanol
Concen: 5.354 ppbv
RT: 3.64 min Scan# 220
Delta R.T. -0.01 min
Lab File: VL033109.D
Acq: 17 Jan 2019 2:34

Instrument :
MSVOA_L
ClientSampleId :
IDOC-2

Tgt Ion: 45 Resp: 101600
Ion Ratio Lower Upper
45 100
46 37.3 13.8 55.2

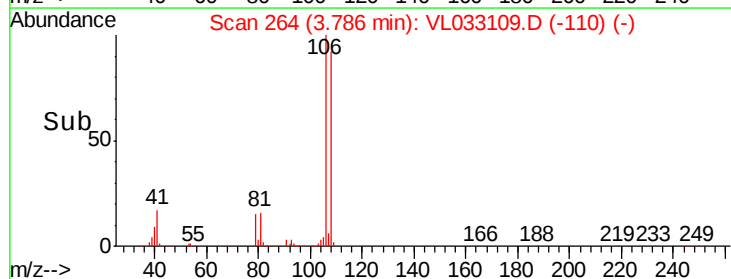
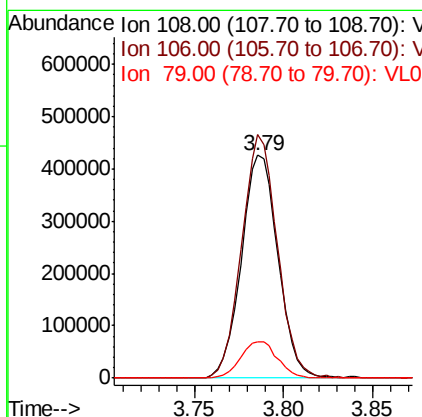
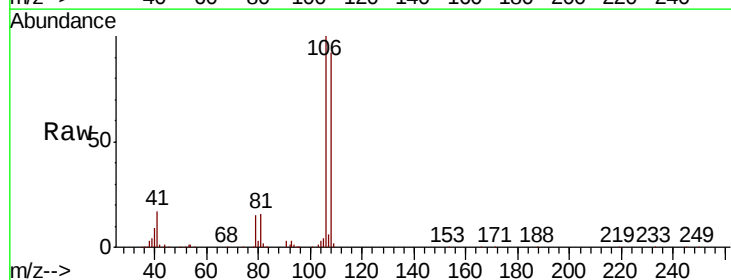
Manual Integrations
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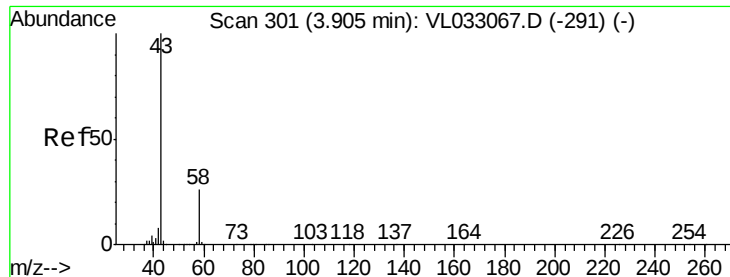
sam
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#14
Bromoethene
Concen: 9.473 ppbv
RT: 3.79 min Scan# 264
Delta R.T. -0.00 min
Lab File: VL033109.D
Acq: 17 Jan 2019 2:34

Tgt Ion: 108 Resp: 612209
Ion Ratio Lower Upper
108 100
106 107.0 86.4 129.6
79 17.0 14.3 21.5





#15

Acetone

Concen: 9.078 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.00 min

Lab File: VL033109.D

Acq: 17 Jan 2019 2:34

Instrument :

MSVOA_L

ClientSampleId :

IDOC-2

Tgt Ion: 43 Resp: 1413841

Ion Ratio Lower Upper

43 100

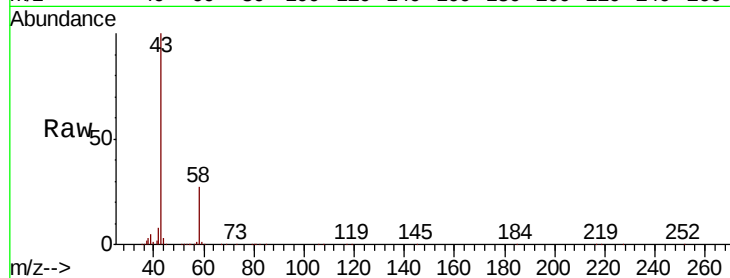
58 26.9 21.1 31.7

Manual Integrations

APPROVED

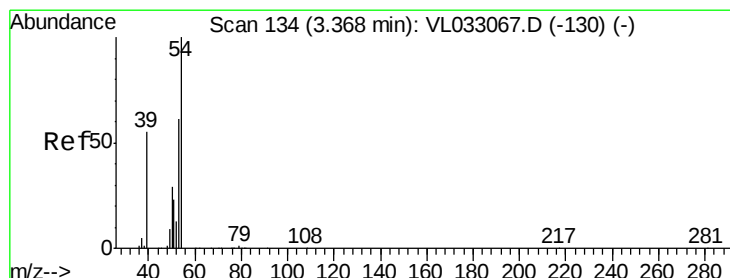
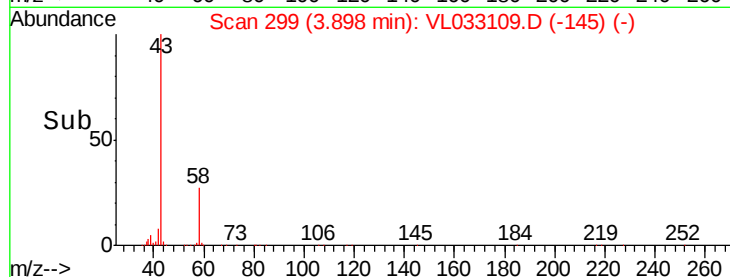
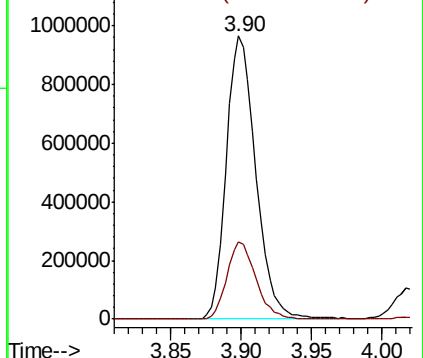
sam

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 10.516 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033109.D

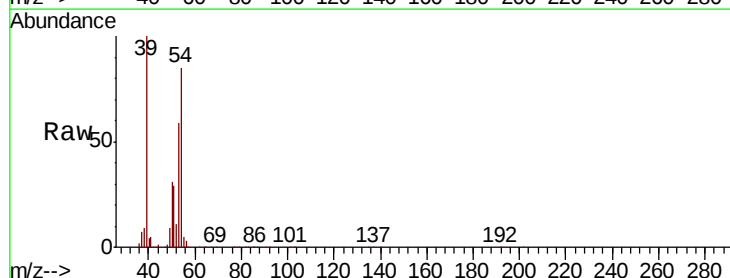
Acq: 17 Jan 2019 2:34

Tgt Ion: 39 Resp: 617605

Ion Ratio Lower Upper

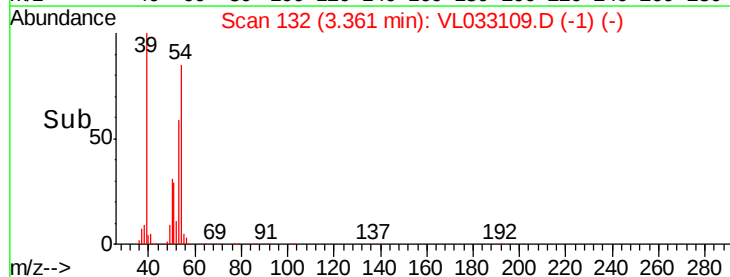
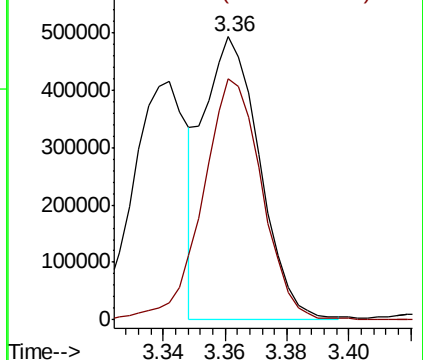
39 100

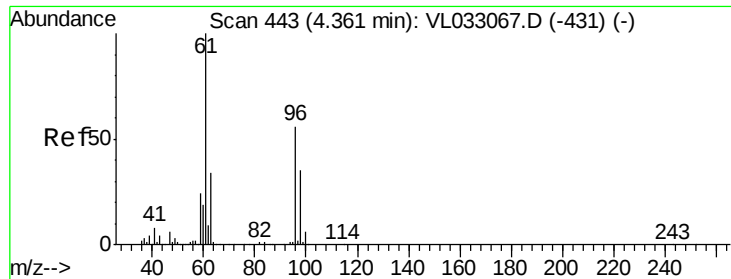
54 90.5 73.7 110.5



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

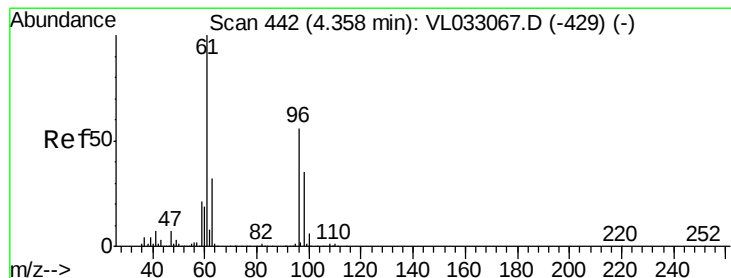
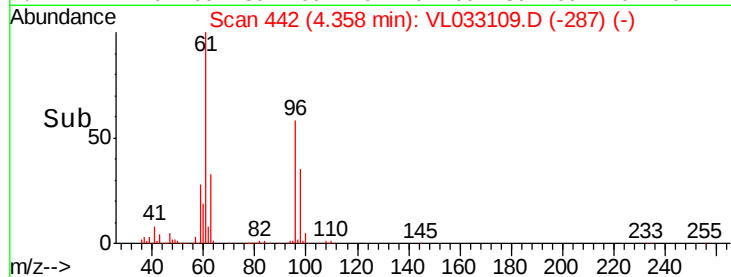
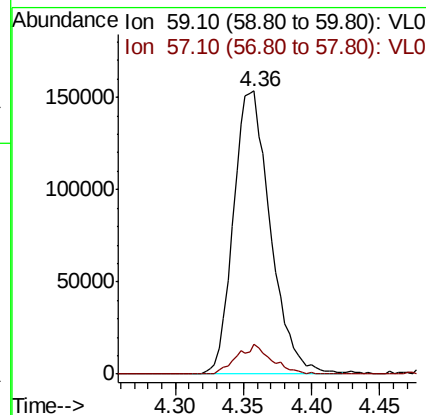
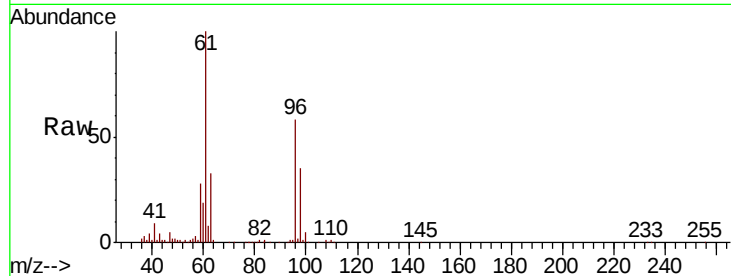
tert-Butyl alcohol
Concen: 8.776 ppbv
RT: 4.36 min Scan# 442
Delta R.T. -0.00 min
Lab File: VL033109.D
Acq: 17 Jan 2019 2:34

Instrument :
MSVOA_L
ClientSampleId :
IDOC-2

Tgt Ion: 59 Resp: 289529
Ion Ratio Lower Upper
59 100
57 10.0 7.7 11.5

Manual Integrations
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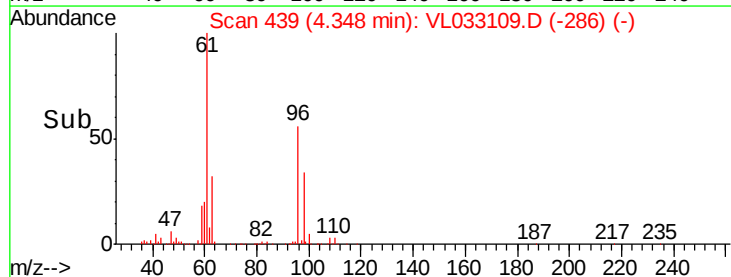
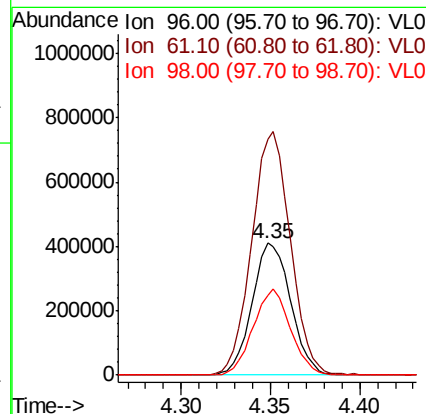
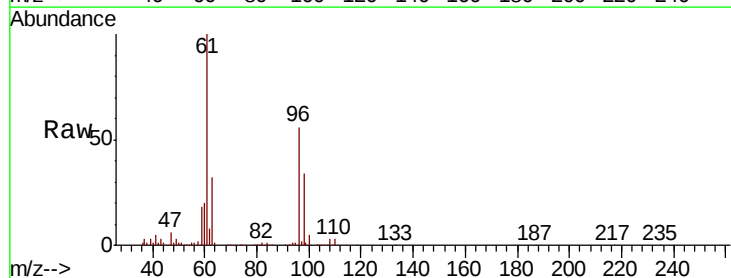
sam
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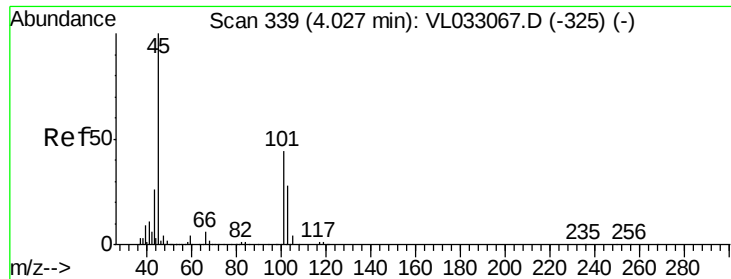


#18

1,1-Dichloroethene
Concen: 9.214 ppbv
RT: 4.35 min Scan# 439
Delta R.T. -0.01 min
Lab File: VL033109.D
Acq: 17 Jan 2019 2:34

Tgt Ion: 96 Resp: 620982
Ion Ratio Lower Upper
96 100
61 179.1 143.7 215.5
98 60.8 52.1 78.1





#19

Isopropyl Alcohol

Concen: 6.719 ppbv

RT: 4.02 min Scan# 336

Delta R.T. -0.01 min

Lab File: VL033109.D

Acq: 17 Jan 2019 2:34

Instrument :

MSVOA_L

ClientSampleId :

IDOC-2

Tgt Ion: 45 Resp: 720445

Ion Ratio Lower Upper

45 100

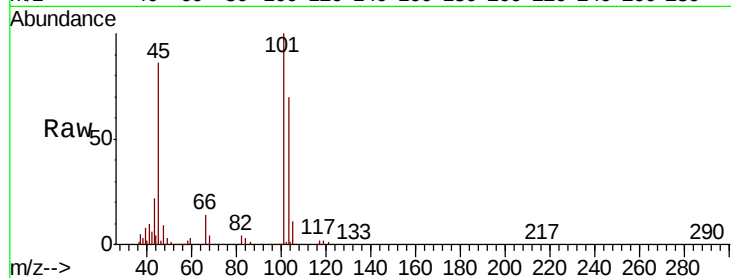
58 2.3 1.4 2.2#

Manual Integrations

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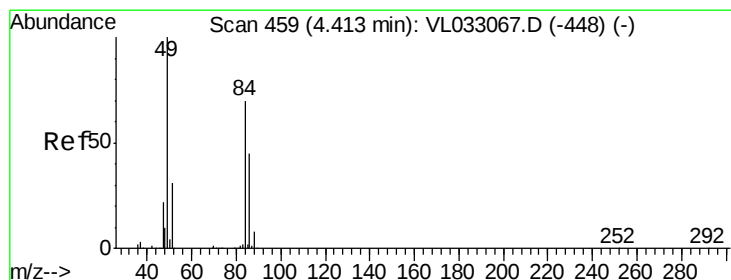
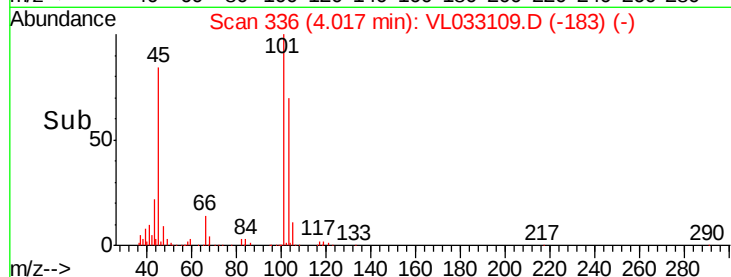
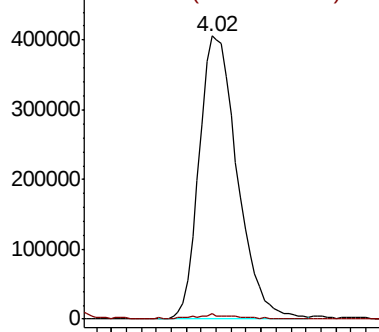
sam

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 8.031 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033109.D

Acq: 17 Jan 2019 2:34

Tgt Ion: 84 Resp: 521464

Ion Ratio Lower Upper

84 100

49 139.5 115.8 173.6

51 43.1 35.7 53.5

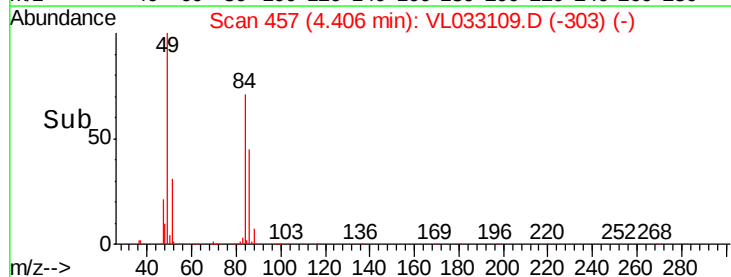
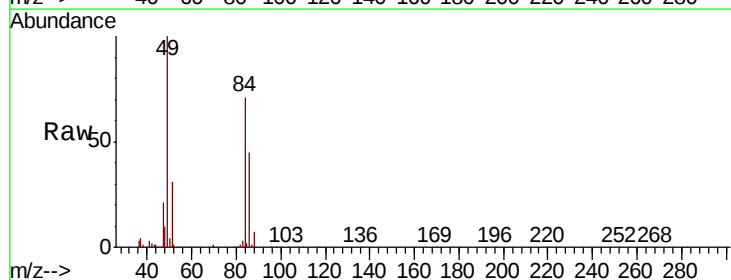
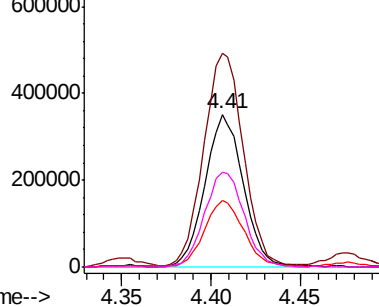
86 62.5 49.7 74.5

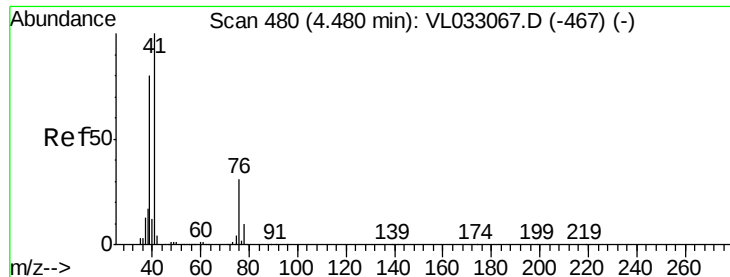
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#21

Allyl Chloride

Concen: 9.936 ppbv

RT: 4.48 min Scan# 479

Delta R.T. -0.00 min

Lab File: VL033109.D

Acq: 17 Jan 2019 2:34

Instrument :

MSVOA_L

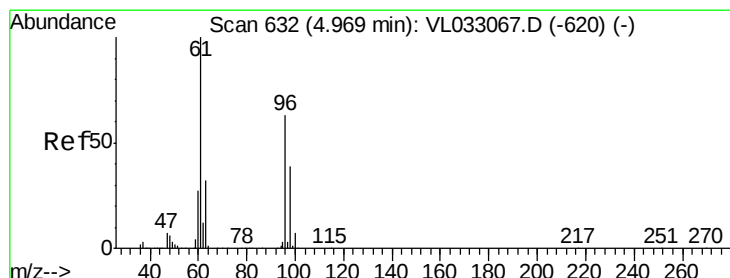
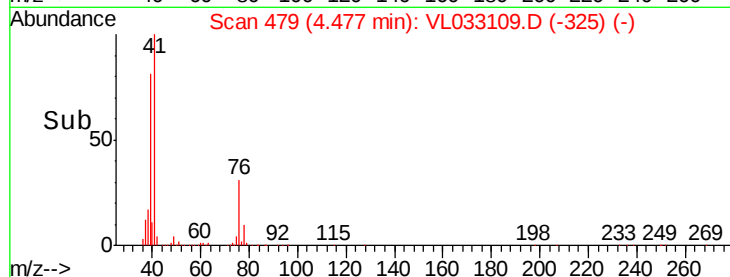
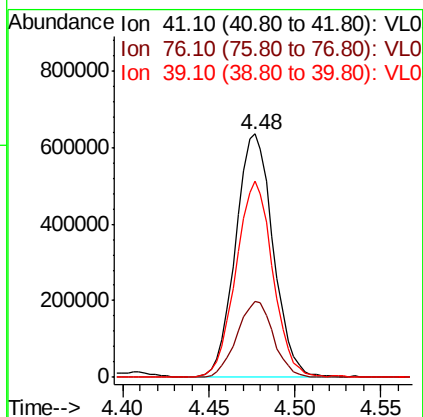
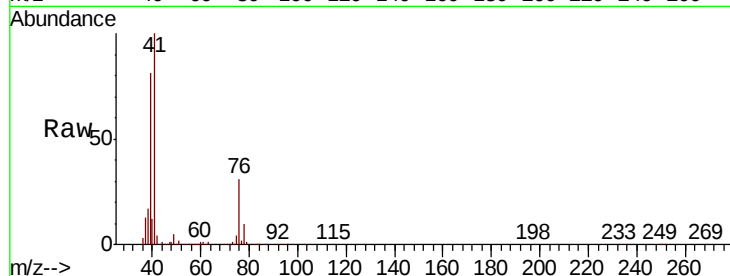
ClientSampleId :

IDOC-2

Tgt Ion:	41	Resp:	958955
Ion Ratio		Lower	Upper
41	100		
76	30.7	24.6	36.8
39	79.2	62.8	94.2

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 9.262 ppbv

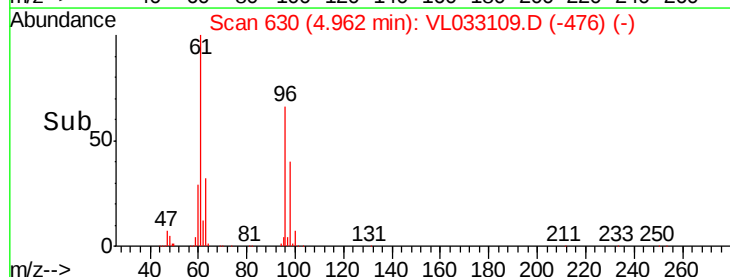
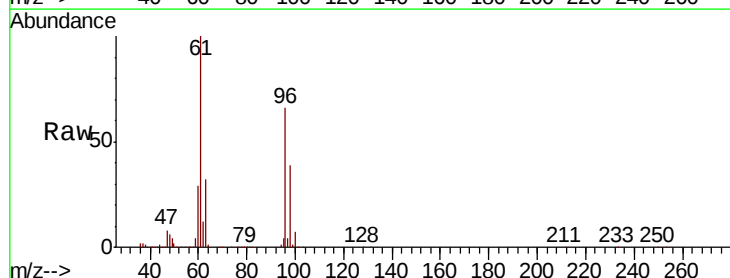
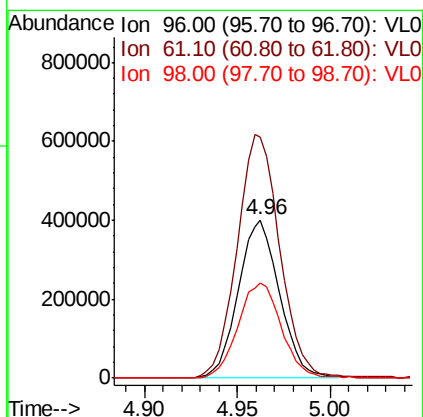
RT: 4.96 min Scan# 630

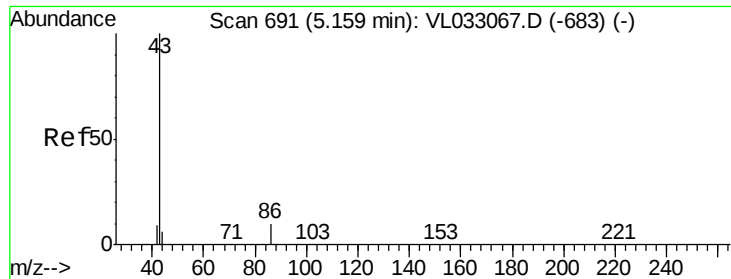
Delta R.T. -0.00 min

Lab File: VL033109.D

Acq: 17 Jan 2019 2:34

Tgt Ion:	96	Resp:	618780
Ion Ratio		Lower	Upper
96	100		
61	152.4	125.2	187.8
98	59.9	50.9	76.3





#23
 Vinyl Acetate
 Concen: 10.196 ppbv
 RT: 5.15 min Scan# 689
 Delta R.T. -0.01 min
 Lab File: VL033109.D
 Acq: 17 Jan 2019 2:34

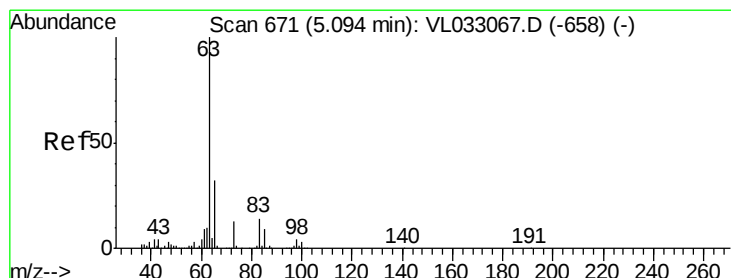
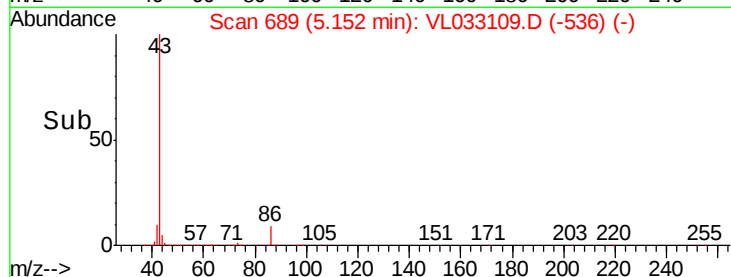
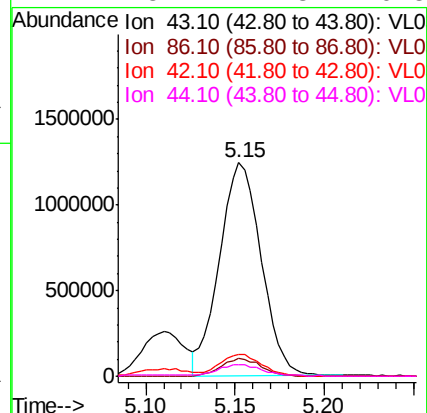
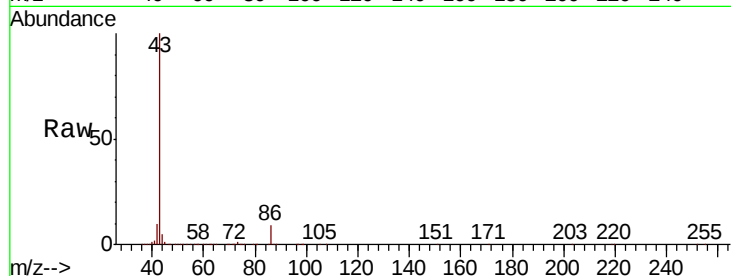
Instrument :
 MSVOA_L
 ClientSampleId :
 IDOC-2

Tgt Ion: 43 Resp: 2020127

Ion	Ratio	Lower	Upper
43	100		
86	8.5	6.2	9.4
42	10.3	8.1	12.1
44	5.1	4.3	6.5

Manual Integrations
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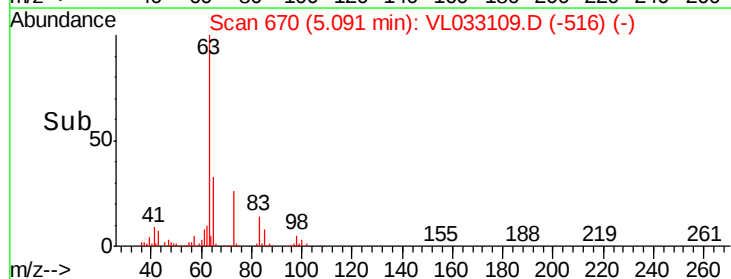
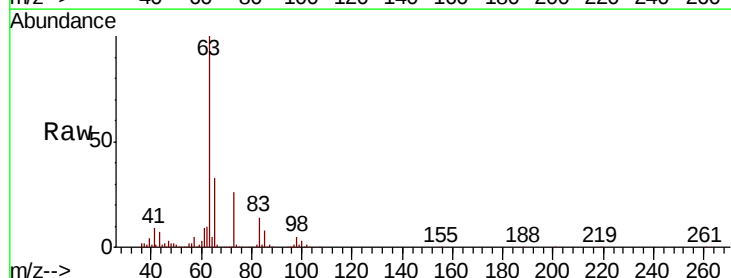
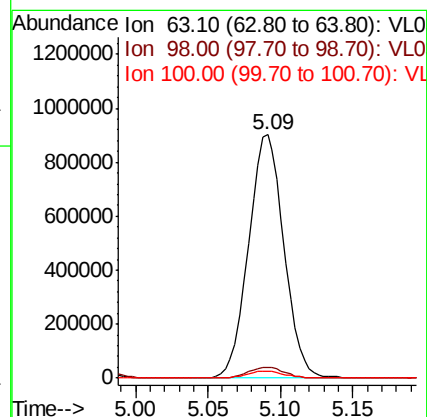
sam
 1/21/2019 8:51:06 AM

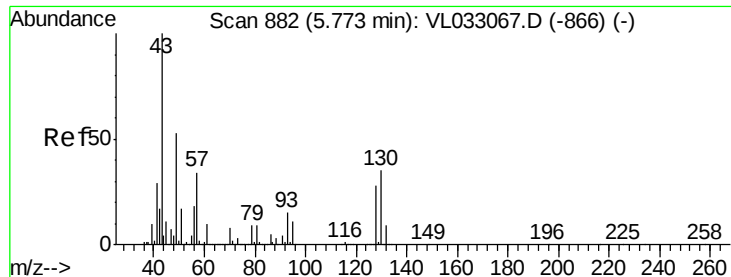


#24
 1,1-Dichloroethane
 Concen: 9.069 ppbv
 RT: 5.09 min Scan# 670
 Delta R.T. -0.00 min
 Lab File: VL033109.D
 Acq: 17 Jan 2019 2:34

Tgt Ion: 63 Resp: 1525736

Ion	Ratio	Lower	Upper
63	100		
98	4.5	2.4	7.2
100	2.9	1.4	4.0





#25
Ethyl Acetate
Concen: 9.072 ppbv
RT: 5.77 min Scan# 881
Delta R.T. -0.00 min
Lab File: VL033109.D
Acq: 17 Jan 2019 2:34

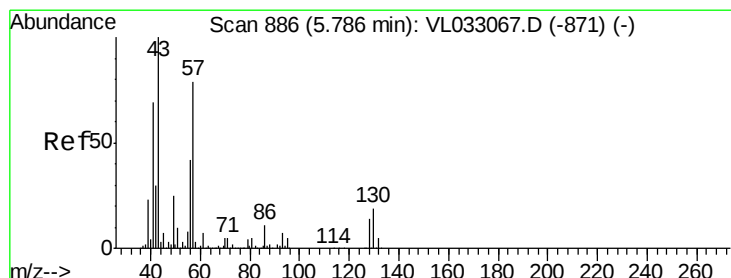
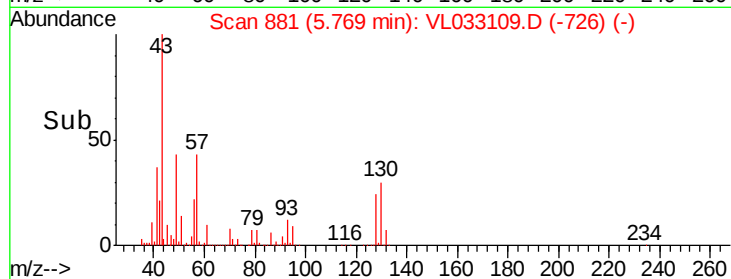
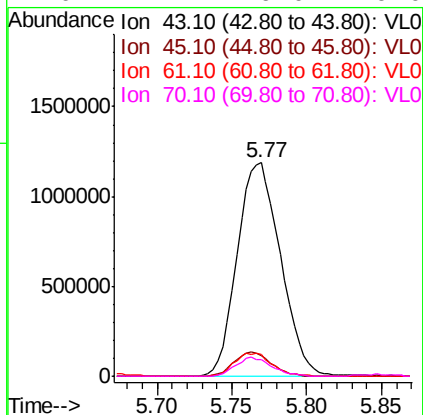
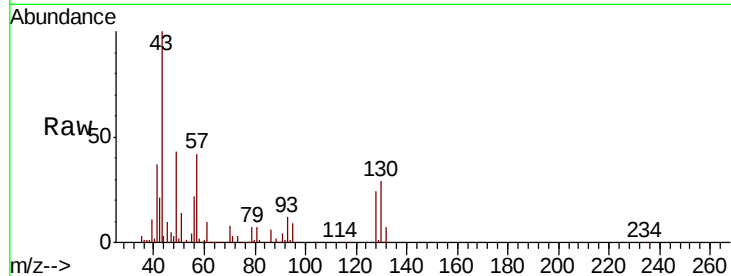
Instrument :
MSVOA_L
ClientSampleId :
IDOC-2

Tgt Ion: 43 Resp: 2388197

Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.9	11.9
61	9.7	7.8	11.8
70	7.4	6.0	9.0

Manual Integrations
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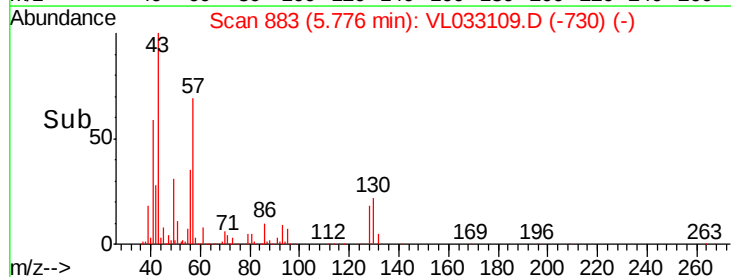
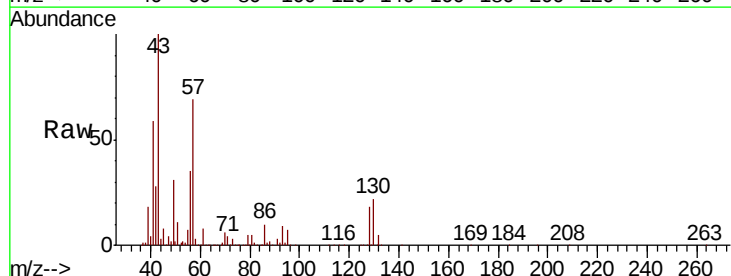
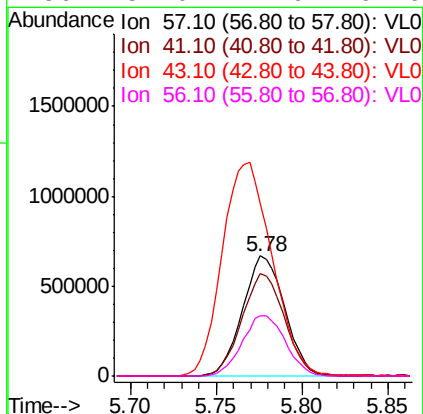
sam
1/21/2019 8:51:06 AM

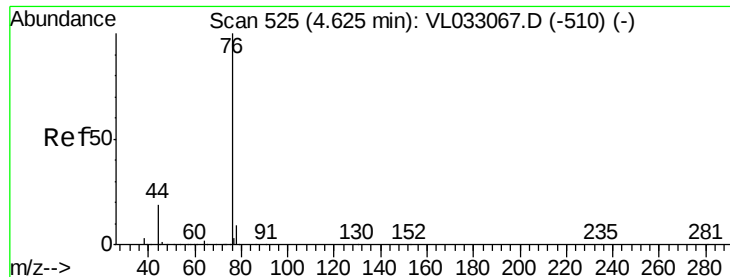


#26
Hexane
Concen: 9.148 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.01 min
Lab File: VL033109.D
Acq: 17 Jan 2019 2:34

Tgt Ion: 57 Resp: 1133950

Ion	Ratio	Lower	Upper
57	100		
41	86.5	70.8	106.2
43	212.0	171.8	257.6
56	52.0	41.9	62.9





#27

Carbon Disulfide

Concen: 10.077 ppbv

RT: 4.62 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL033109.D

Acq: 17 Jan 2019 2:34

Instrument :

MSVOA_L

ClientSampled :

IDOC-2

Tgt Ion: 76 Resp: 1540535

Ion Ratio Lower Upper

76 100

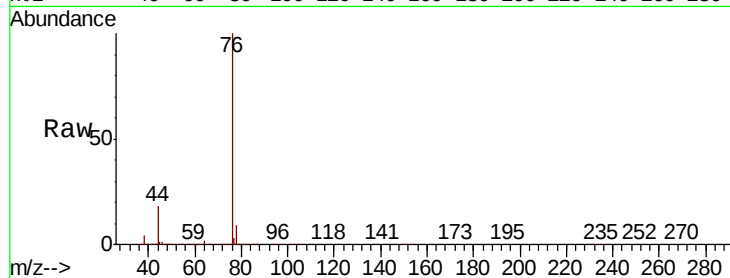
44 17.8 13.9 20.9

78 9.2 7.3 10.9

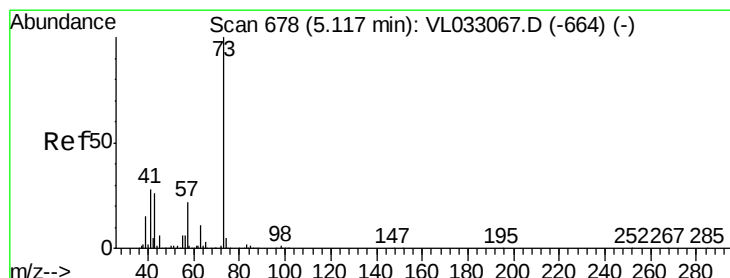
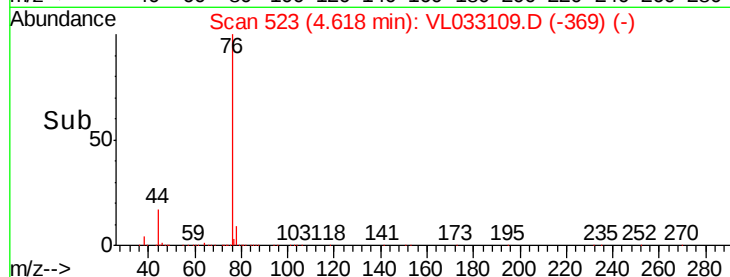
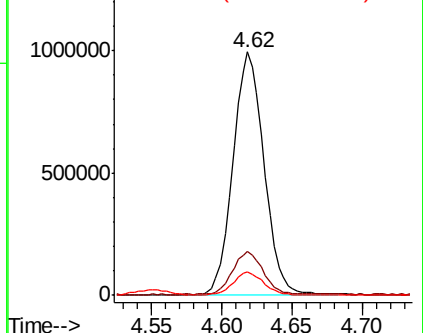
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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.671 ppbv

RT: 5.11 min Scan# 676

Delta R.T. -0.00 min

Lab File: VL033109.D

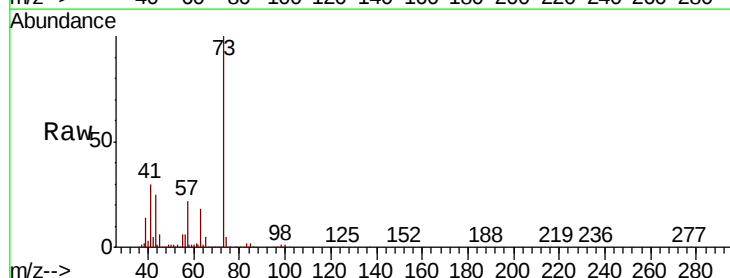
Acq: 17 Jan 2019 2:34

Tgt Ion: 73 Resp: 1871327

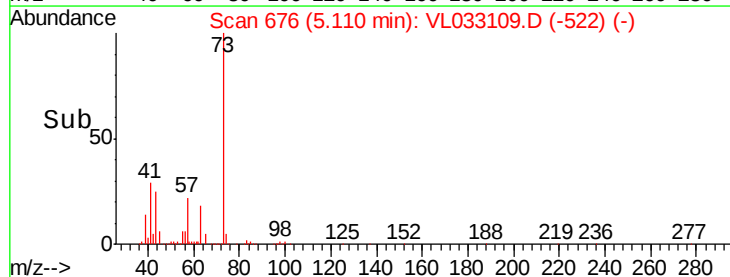
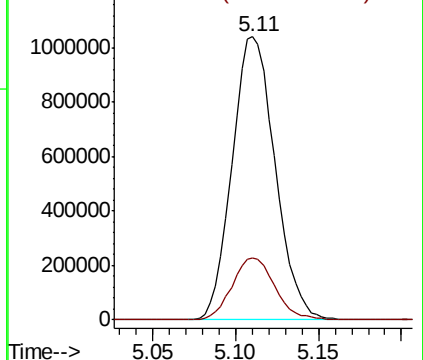
Ion Ratio Lower Upper

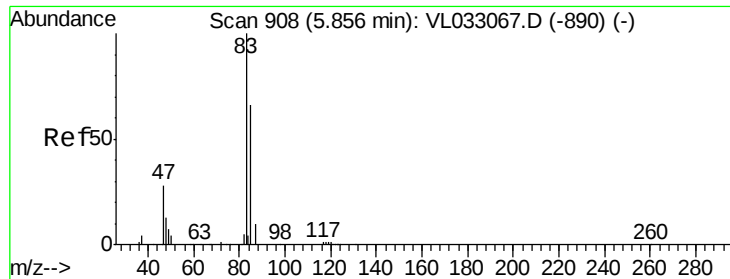
73 100

57 22.0 17.5 26.3



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





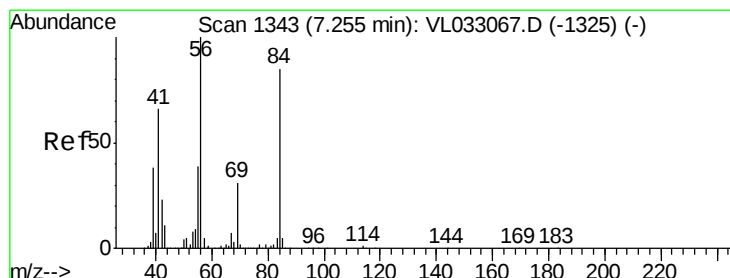
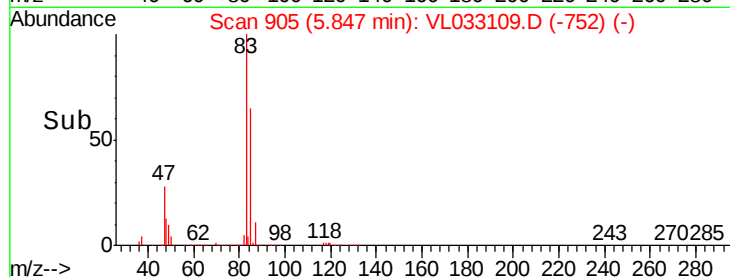
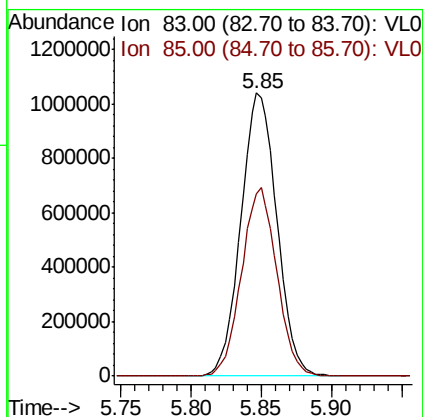
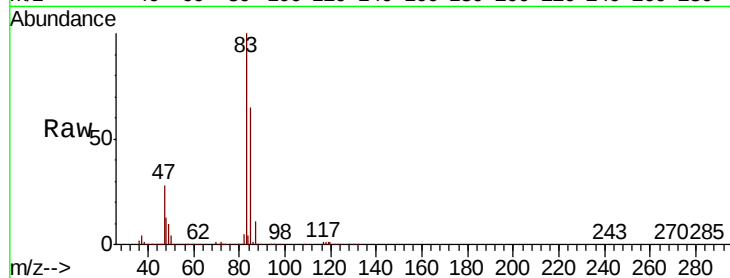
#29
Chloroform
Concen: 8.806 ppbv
RT: 5.85 min Scan# 905
Delta R.T. -0.01 min
Lab File: VL033109.D
Acq: 17 Jan 2019 2:34

Instrument :
MSVOA_L
ClientSampled :
IDOC-2

Tgt Ion: 83 Resp: 1860203
Ion Ratio Lower Upper
83 100
85 64.5 52.5 78.7

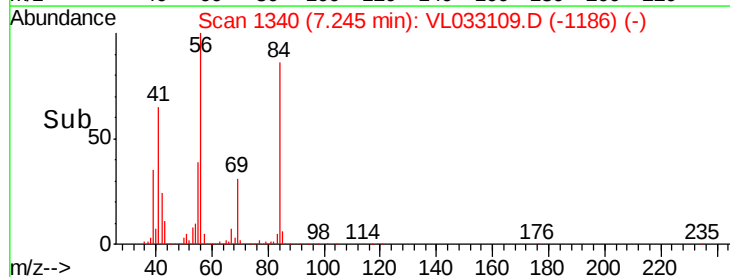
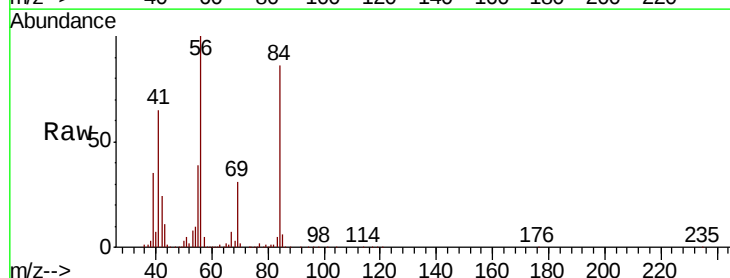
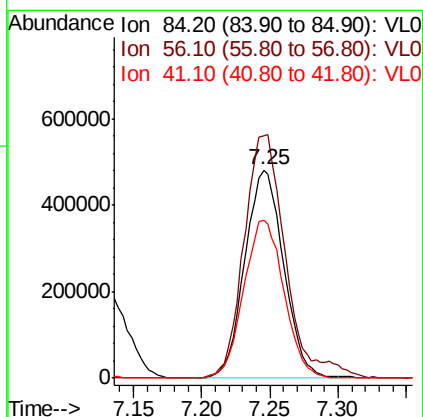
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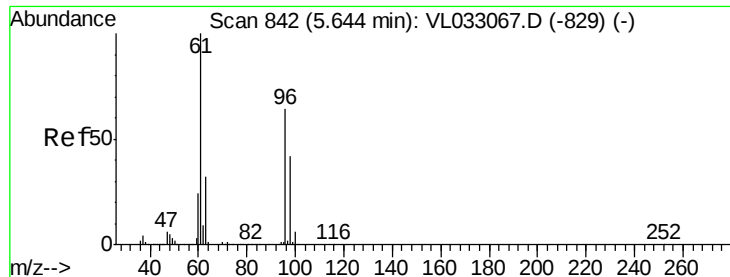
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#30
Cyclohexane
Concen: 10.274 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VL033109.D
Acq: 17 Jan 2019 2:34

Tgt Ion: 84 Resp: 949600
Ion Ratio Lower Upper
84 100
56 125.9 101.8 152.6
41 78.6 63.2 94.8





#31

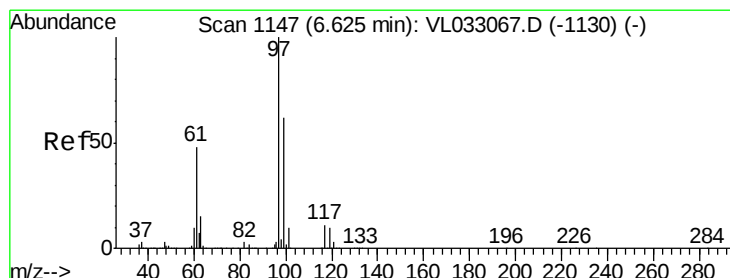
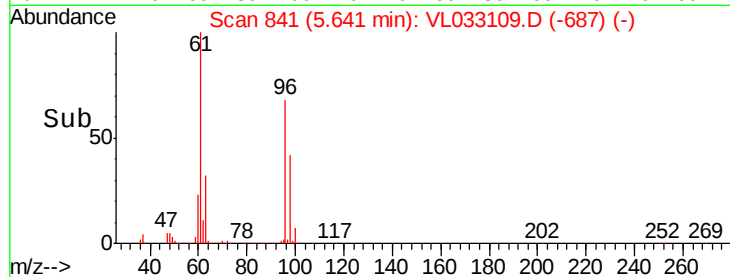
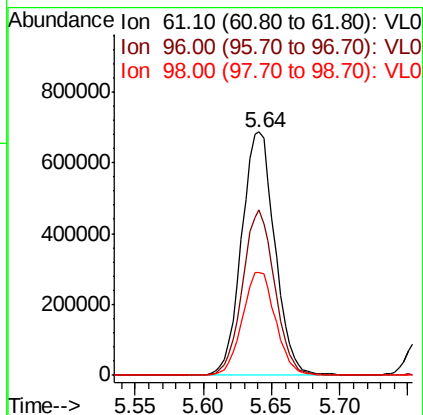
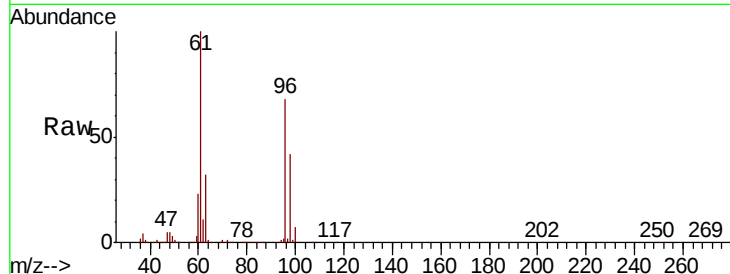
cis-1,2-Dichloroethene
 Concen: 10.100 ppbv
 RT: 5.64 min Scan# 841
 Delta R.T. -0.00 min
 Lab File: VL033109.D
 Acq: 17 Jan 2019 2:34

Instrument :
 MSVOA_L
 ClientSampleId :
 IDOC-2

Tgt Ion: 61 Resp: 1162608
 Ion Ratio Lower Upper
 61 100
 96 67.9 52.8 79.2
 98 42.1 33.8 50.6

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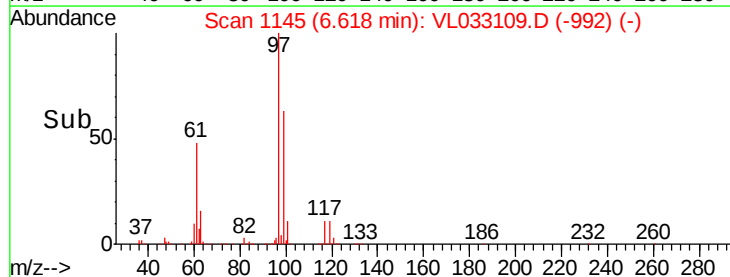
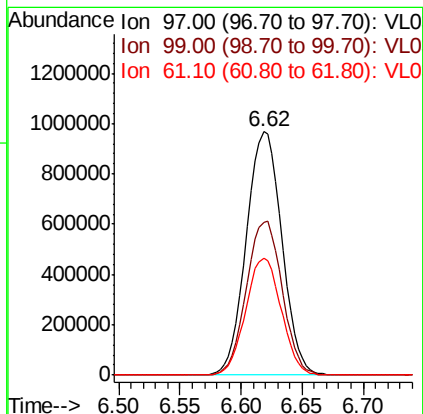
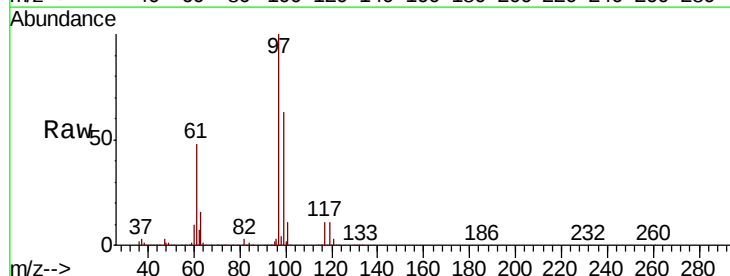
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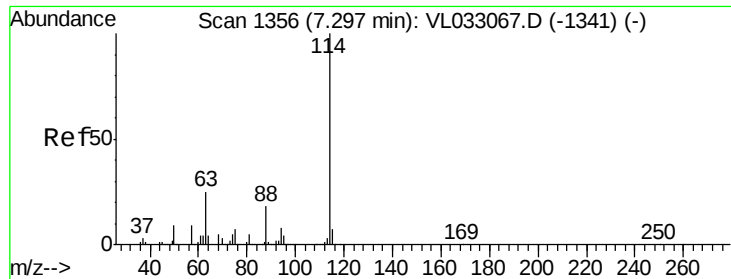


#32

1,1,1-Trichloroethane
 Concen: 9.091 ppbv
 RT: 6.62 min Scan# 1145
 Delta R.T. -0.01 min
 Lab File: VL033109.D
 Acq: 17 Jan 2019 2:34

Tgt Ion: 97 Resp: 1949056
 Ion Ratio Lower Upper
 97 100
 99 63.8 51.1 76.7
 61 48.0 38.3 57.5





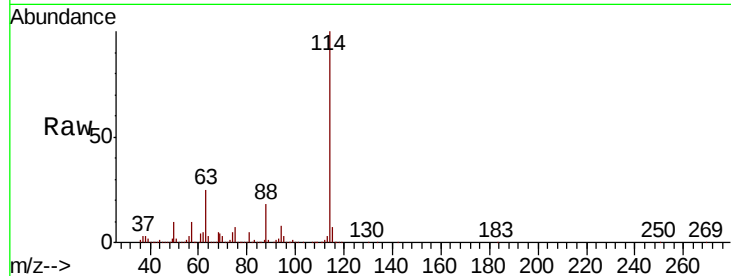
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.01 min
 Lab File: VL033109.D
 Acq: 17 Jan 2019 2:34

Instrument :
 MSVOA_L
 ClientSampleId :
 IDOC-2

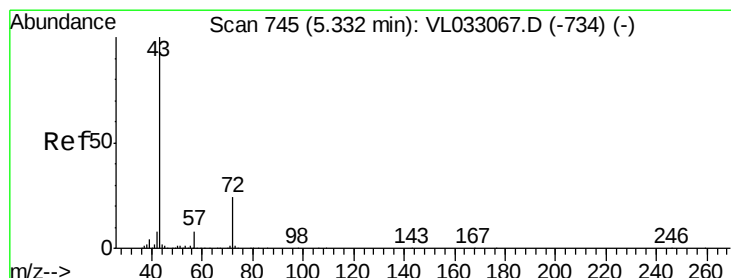
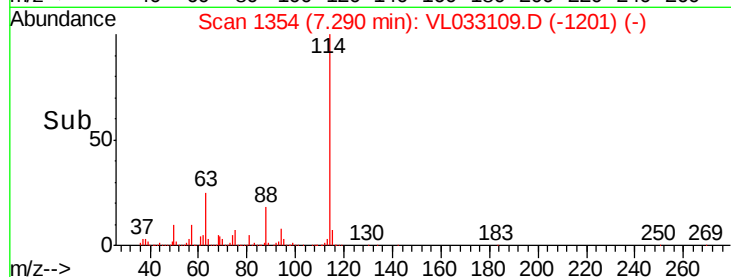
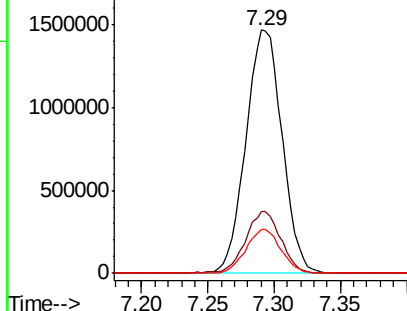
Tgt Ion	Ratio	Lower	Upper
114	100		
63	25.0	20.1	30.1
88	17.6	14.0	21.0

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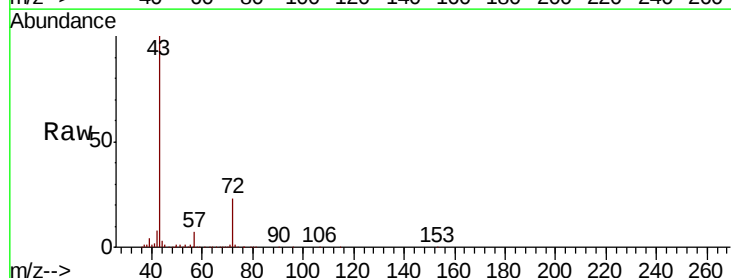


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

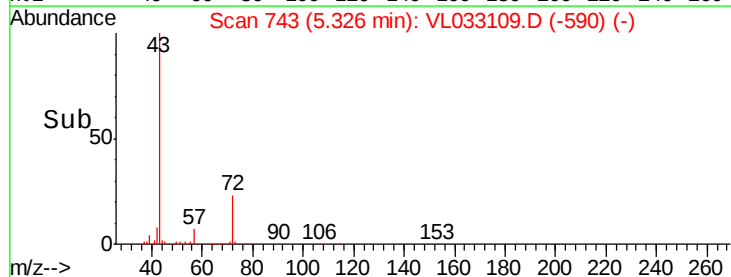
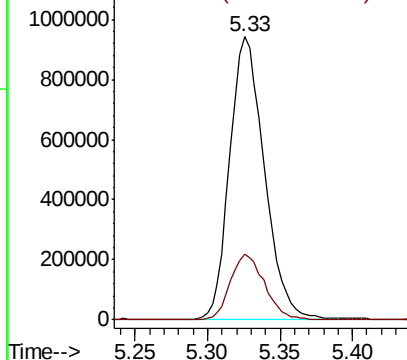


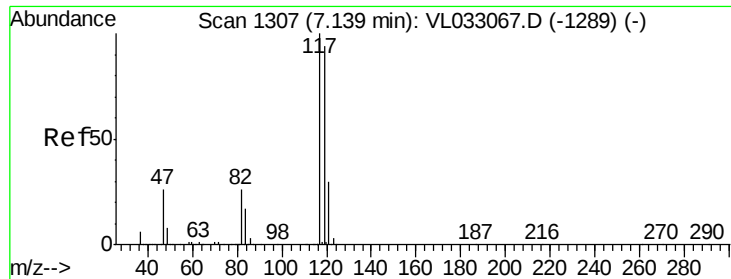
#34
 2-Butanone
 Concen: 9.617 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. -0.01 min
 Lab File: VL033109.D
 Acq: 17 Jan 2019 2:34

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.1	18.9	28.3



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 8.919 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. -0.01 min

Lab File: VL033109.D

Acq: 17 Jan 2019 2:34

Instrument :

MSVOA_L

ClientSampled :

IDOC-2

Tgt Ion: 117 Resp: 2143408

Ion Ratio Lower Upper

117 100

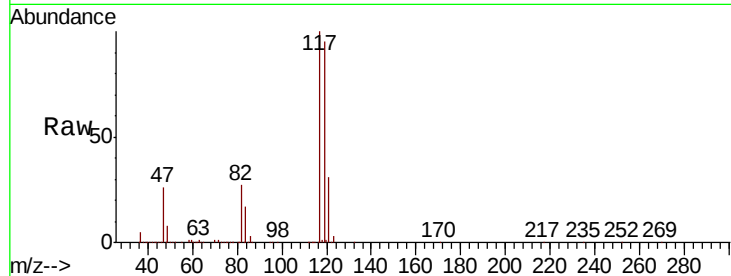
119 94.8 76.5 114.7

121 31.3 25.2 37.8

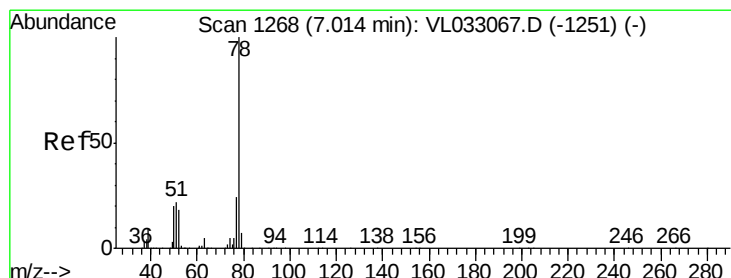
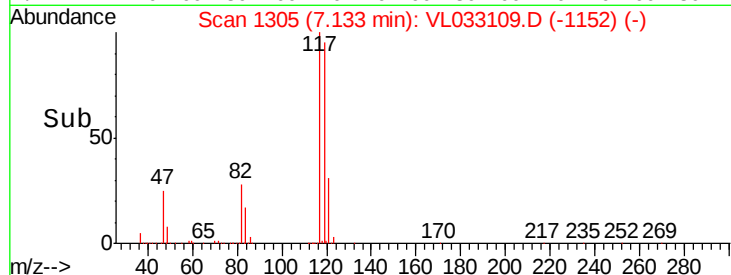
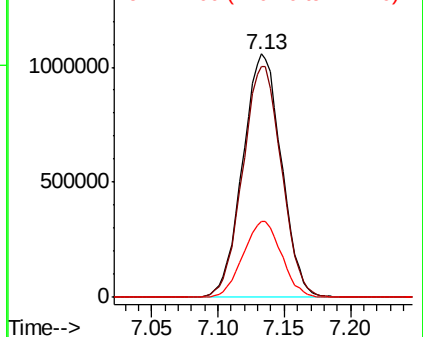
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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.973 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.01 min

Lab File: VL033109.D

Acq: 17 Jan 2019 2:34

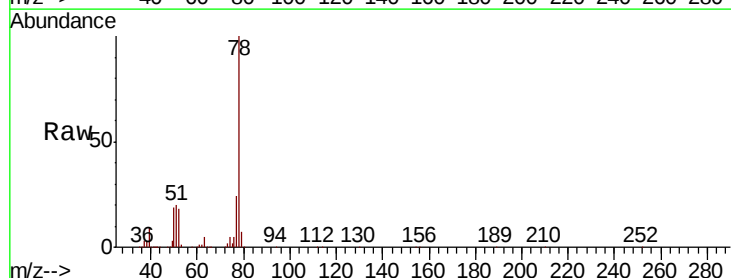
Tgt Ion: 78 Resp: 2285649

Ion Ratio Lower Upper

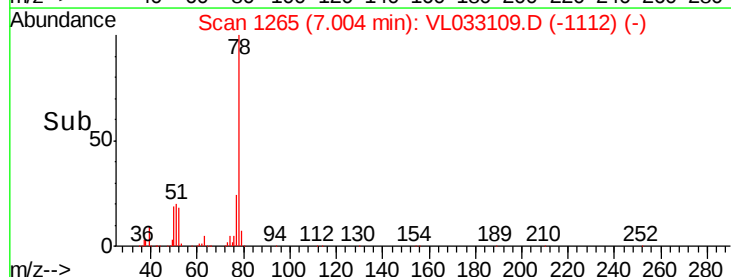
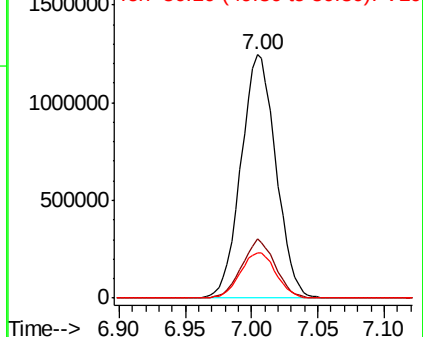
78 100

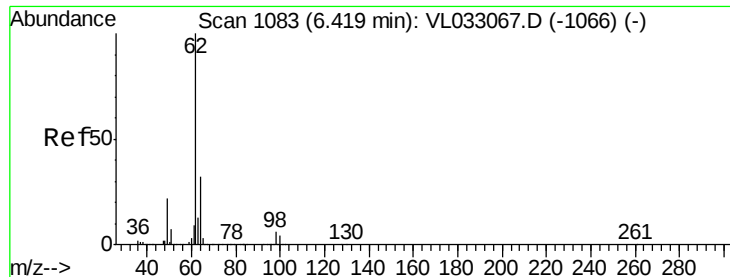
77 24.3 18.5 27.7

50 18.5 15.7 23.5



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





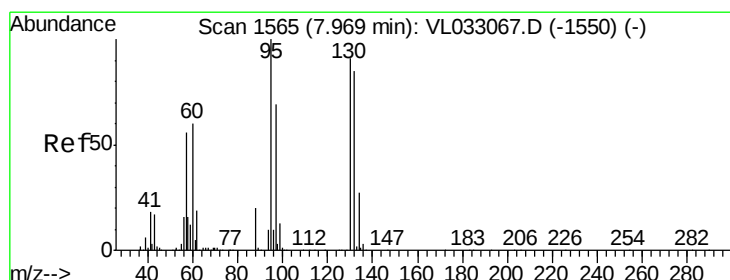
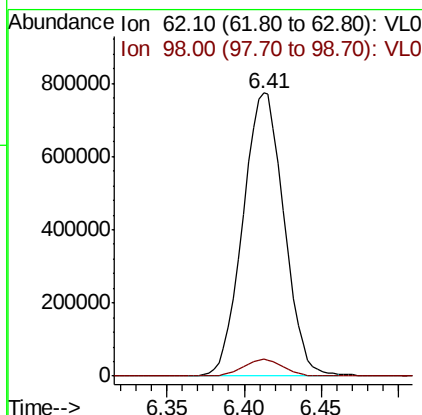
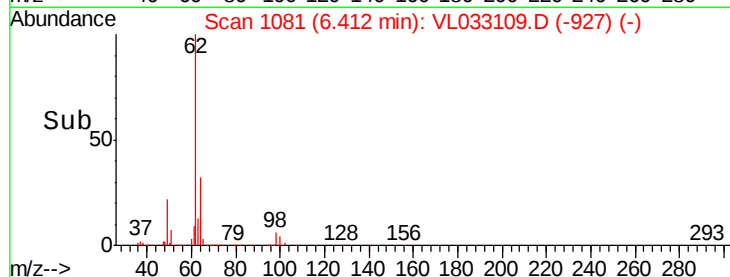
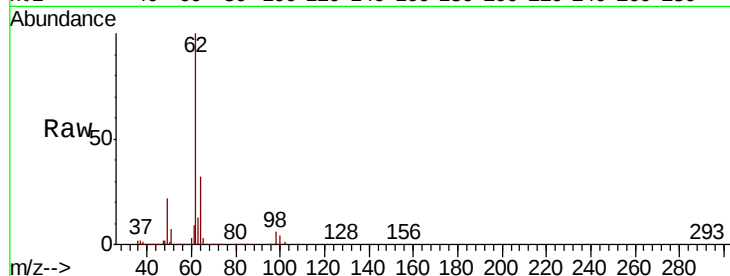
#37
 1,2-Dichloroethane
 Concen: 8.939 ppbv
 RT: 6.41 min Scan# 1081
 Delta R.T. -0.00 min
 Lab File: VL033109.D
 Acq: 17 Jan 2019 2:34

Instrument :
 MSVOA_L
 ClientSampleId :
 IDOC-2

Tgt Ion: 62 Resp: 1430273
 Ion Ratio Lower Upper
 62 100
 98 5.9 4.6 7.0

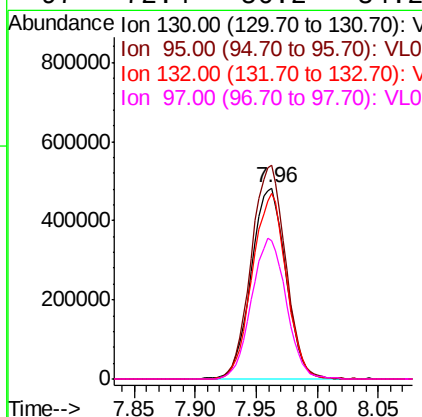
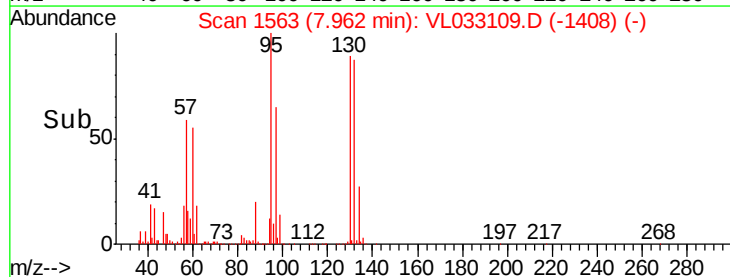
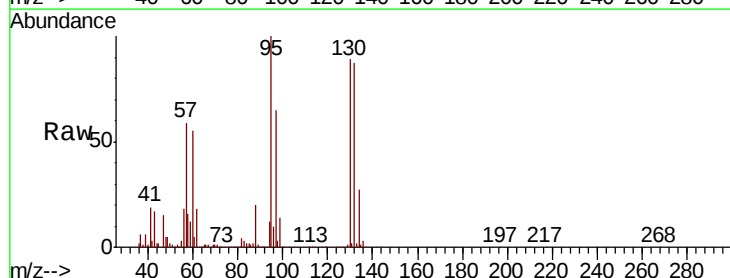
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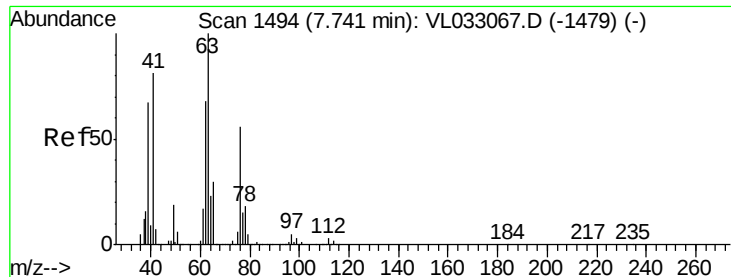
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#38
 Trichloroethene
 Concen: 9.995 ppbv
 RT: 7.96 min Scan# 1563
 Delta R.T. -0.00 min
 Lab File: VL033109.D
 Acq: 17 Jan 2019 2:34

Tgt Ion: 130 Resp: 942337
 Ion Ratio Lower Upper
 130 100
 95 111.8 88.6 132.8
 132 97.4 74.2 111.2
 97 72.4 56.2 84.2





#39

1,2-Dichloropropane

Concen: 9.651 ppbv

RT: 7.74 min Scan# 1493

Delta R.T. -0.01 min

Lab File: VL033109.D

Acq: 17 Jan 2019 2:34

Instrument :

MSVOA_L

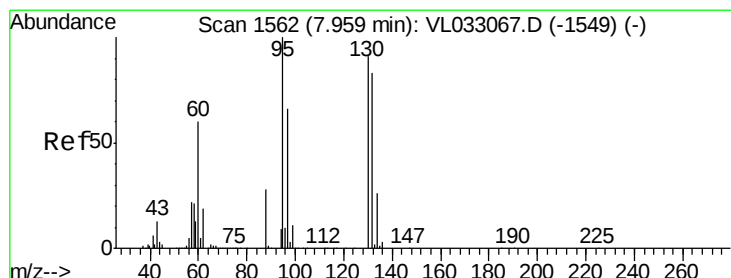
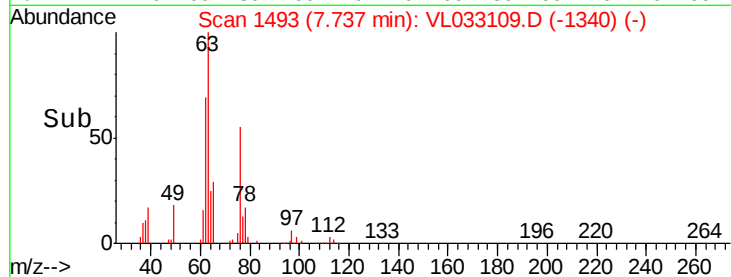
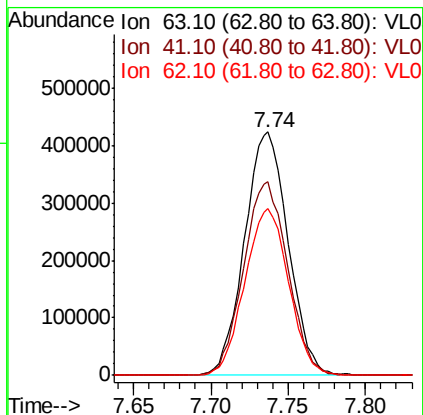
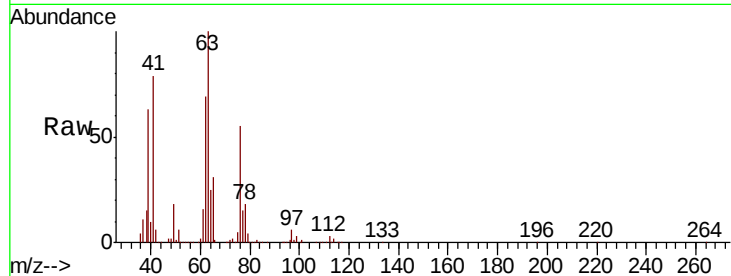
ClientSampled :

IDOC-2

Tgt Ion:	63	Resp:	830868
Ion Ratio	Lower	Upper	
63	100		
41	79.5	61.9	92.9
62	68.6	55.8	83.6

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#40

1,4-Dioxane

Concen: 9.118 ppbv

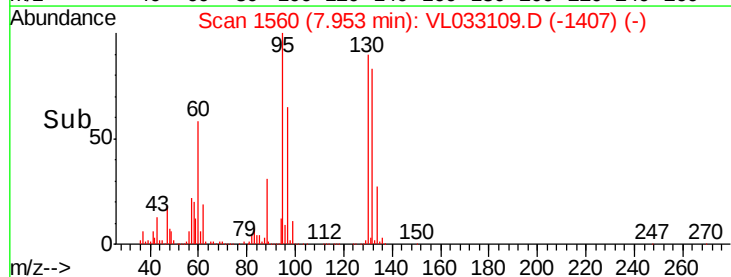
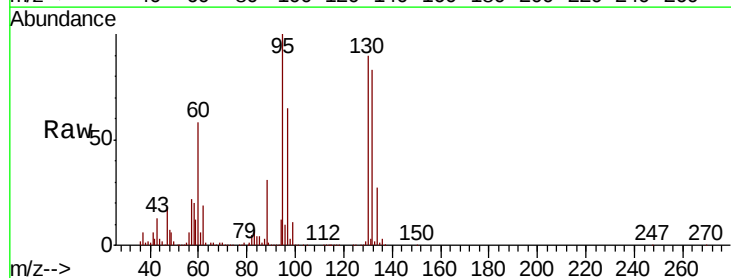
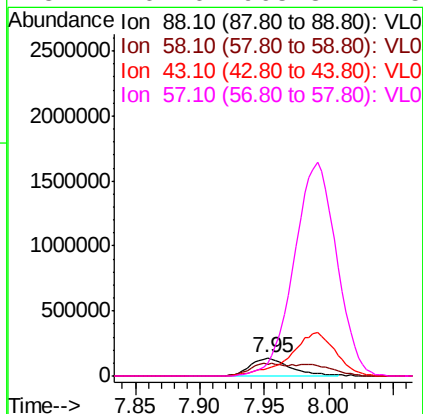
RT: 7.95 min Scan# 1560

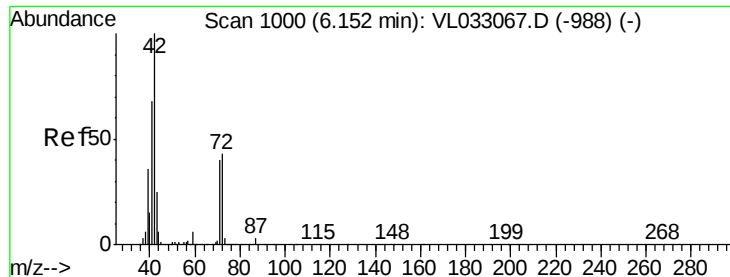
Delta R.T. -0.01 min

Lab File: VL033109.D

Acq: 17 Jan 2019 2:34

Tgt Ion:	88	Resp:	297998
Ion Ratio	Lower	Upper	
88	100		
58	126.7	101.9	152.9
43	275.6	212.6	319.0
57	1267.6	963.8	1445.6





#41

Tetrahydrofuran

Concen: 10.260 ppbv

RT: 6.15 min Scan# 998

Delta R.T. -0.01 min

Lab File: VL033109.D

Acq: 17 Jan 2019 2:34

Instrument :

MSVOA_L

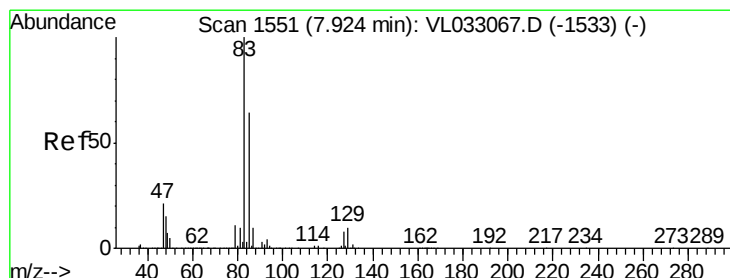
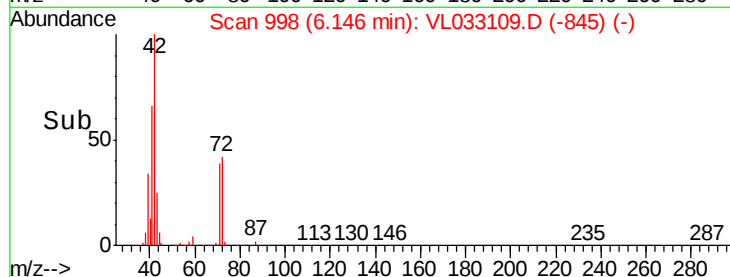
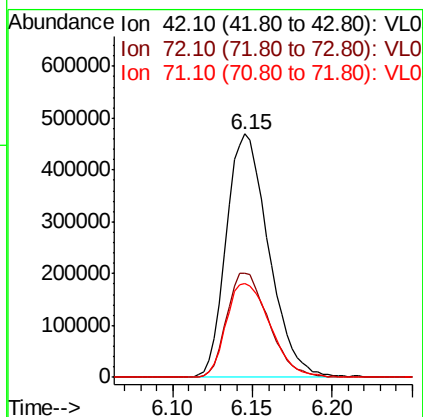
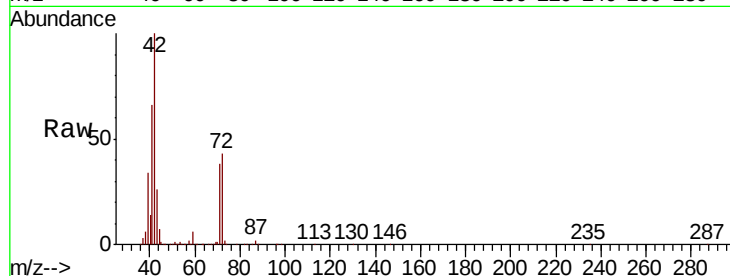
ClientSampleId :

IDOC-2

Tgt Ion:	42	Resp:	848875
Ion Ratio		Lower	Upper
42	100		
72	42.7	32.9	49.3
71	40.2	31.8	47.6

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#42

Bromodichloromethane

Concen: 9.125 ppbv

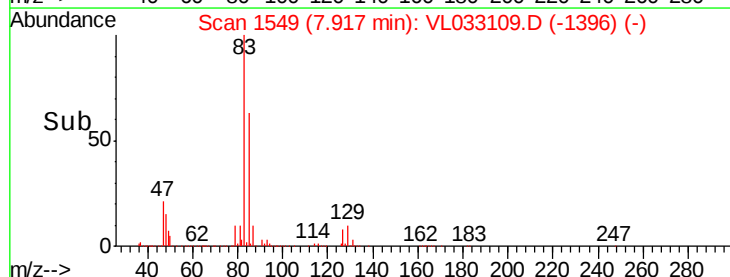
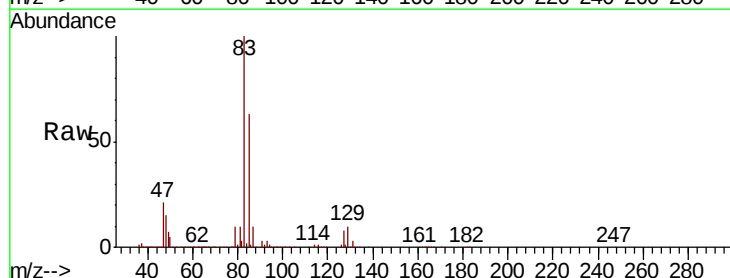
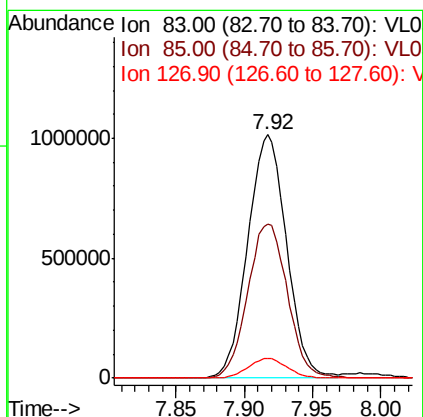
RT: 7.92 min Scan# 1549

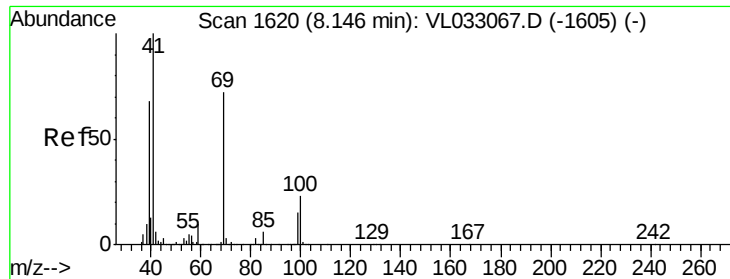
Delta R.T. -0.01 min

Lab File: VL033109.D

Acq: 17 Jan 2019 2:34

Tgt Ion:	83	Resp:	2005802
Ion Ratio		Lower	Upper
83	100		
85	63.2	51.0	76.4
127	8.1	6.5	9.7





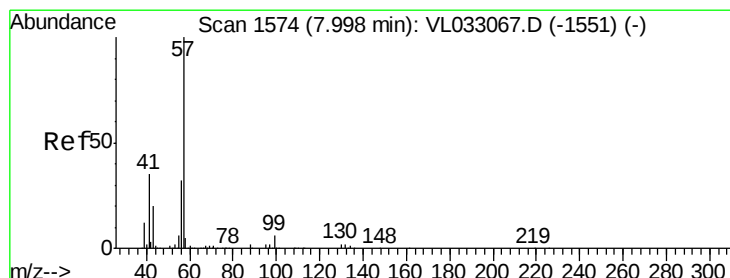
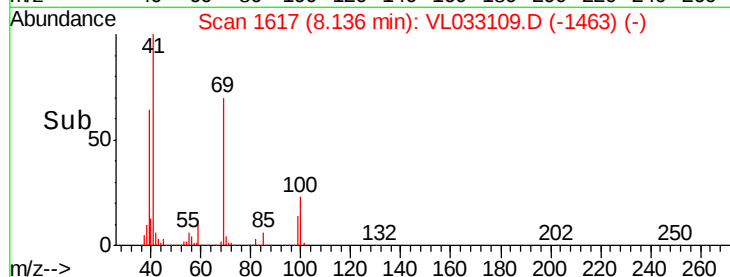
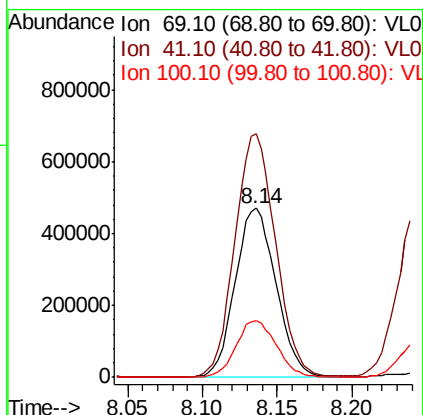
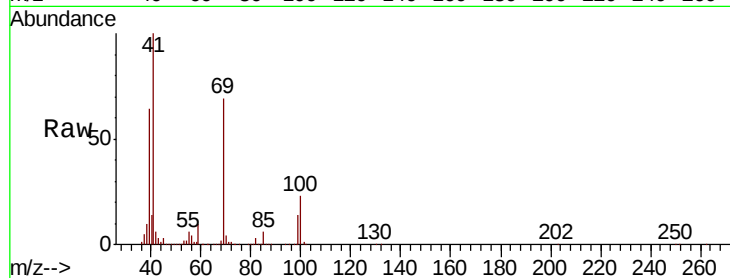
#43
Methyl Methacrylate
Concen: 10.408 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. -0.00 min
Lab File: VL033109.D
Acq: 17 Jan 2019 2:34

Instrument :
MSVOA_L
ClientSampled :
IDOC-2

Tgt Ion: 69 Resp: 895060
Ion Ratio Lower Upper
69 100
41 143.7 114.0 171.0
100 33.2 26.3 39.5

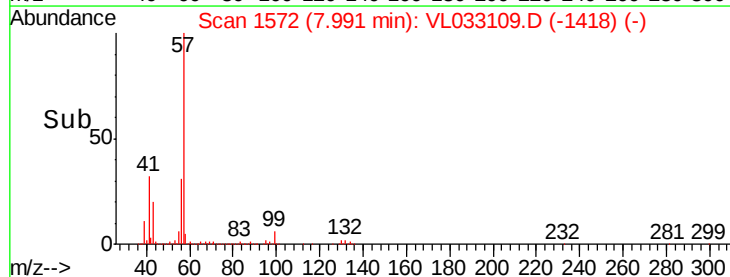
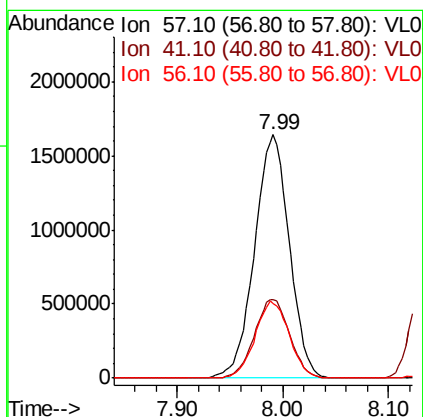
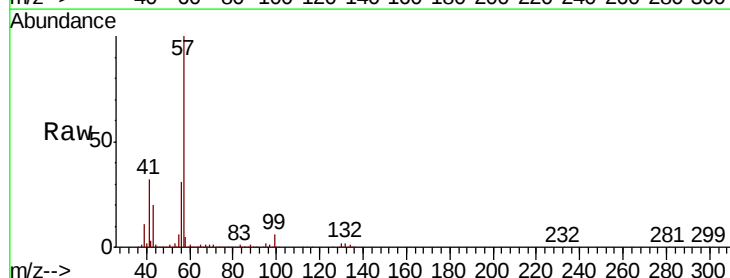
Manual Integrations
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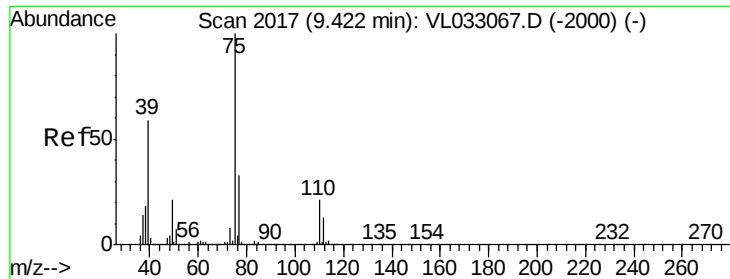
sam
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#44
2,2,4-Trimethylpentane
Concen: 9.726 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. -0.00 min
Lab File: VL033109.D
Acq: 17 Jan 2019 2:34

Tgt Ion: 57 Resp: 3774773
Ion Ratio Lower Upper
57 100
41 32.8 26.2 39.2
56 30.9 24.9 37.3





#45

t-1,3-Dichloropropene

Concen: 11.234 ppbv

RT: 9.42 min Scan# 2015

Delta R.T. -0.01 min

Lab File: VL033109.D

Acq: 17 Jan 2019 2:34

Instrument :

MSVOA_L

ClientSampled :

IDOC-2

Tgt Ion: 75 Resp: 1202526

Ion Ratio Lower Upper

75 100

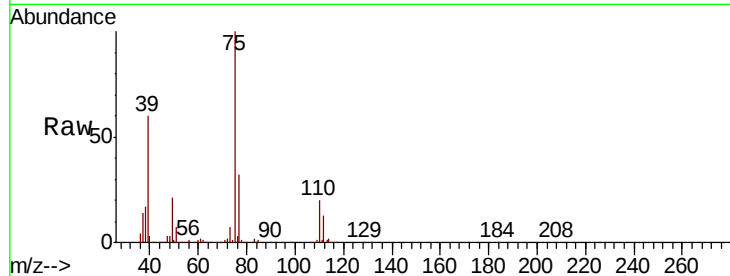
77 31.7 24.8 37.2

Manual Integrations

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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

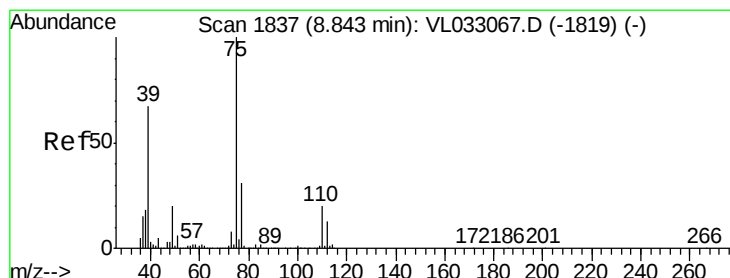
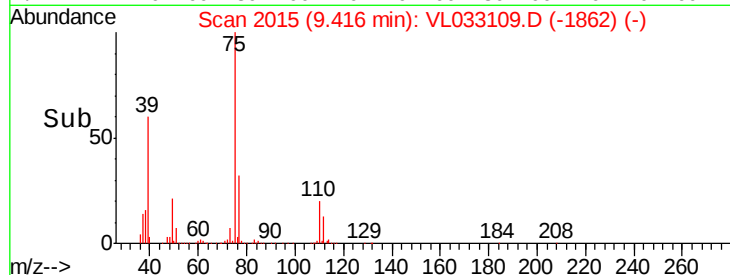
600000

400000

200000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 11.381 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. -0.01 min

Lab File: VL033109.D

Acq: 17 Jan 2019 2:34

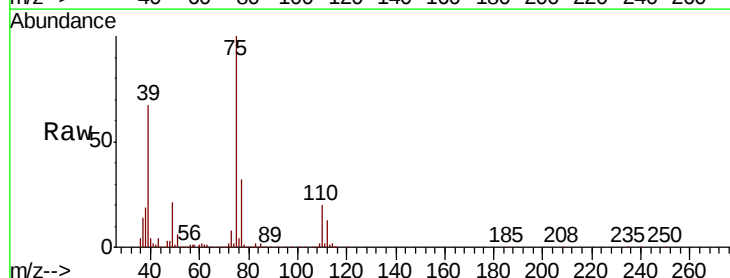
Tgt Ion: 75 Resp: 1390522

Ion Ratio Lower Upper

75 100

39 66.7 51.3 76.9

77 31.9 25.5 38.3



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

1000000

800000

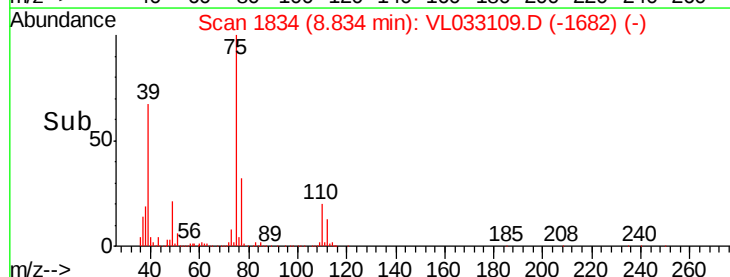
600000

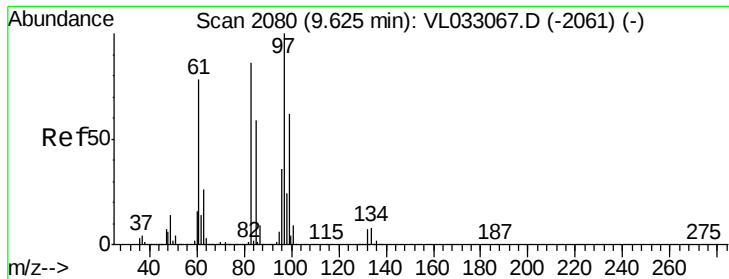
400000

200000

0

Time-->





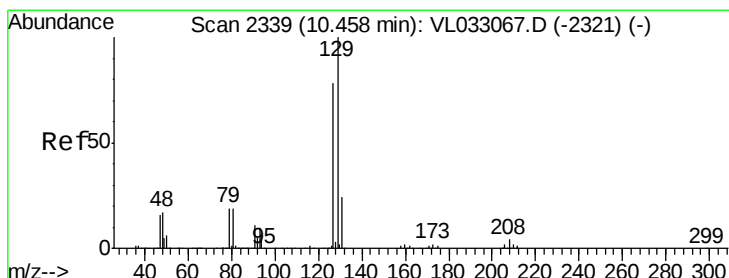
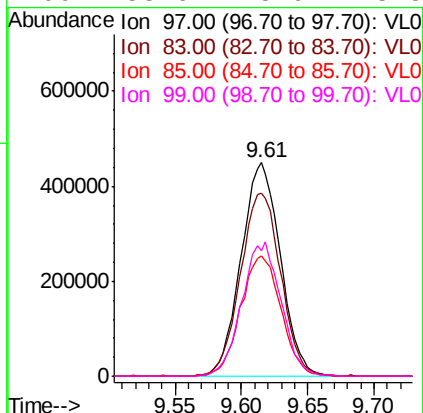
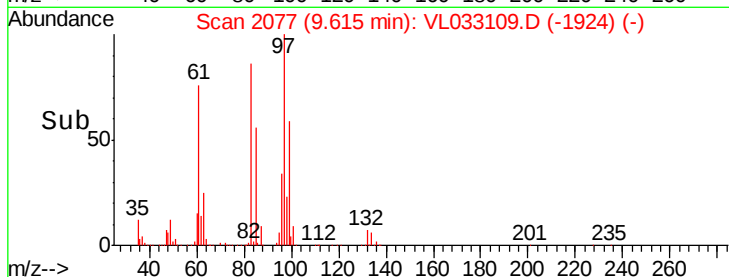
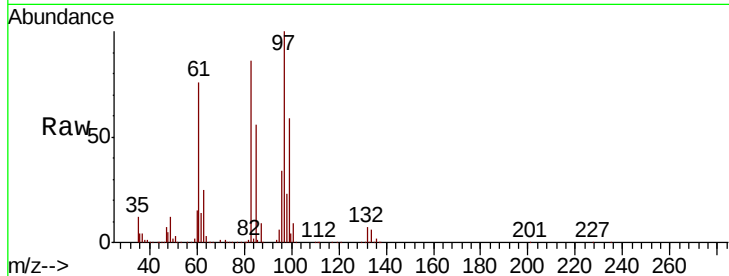
#47
 1,1,2-Trichloroethane
 Concen: 9.227 ppbv
 RT: 9.61 min Scan# 2077
 Delta R.T. -0.01 min
 Lab File: VL033109.D
 Acq: 17 Jan 2019 2:34

Instrument :
 MSVOA_L
 ClientSampleId :
 IDOC-2

Tgt Ion	Ratio	Lower	Upper
97	100		
83	85.7	69.4	104.2
85	56.2	44.2	66.2
99	58.6	48.9	73.3

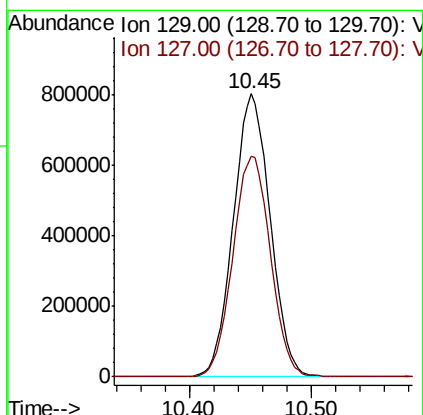
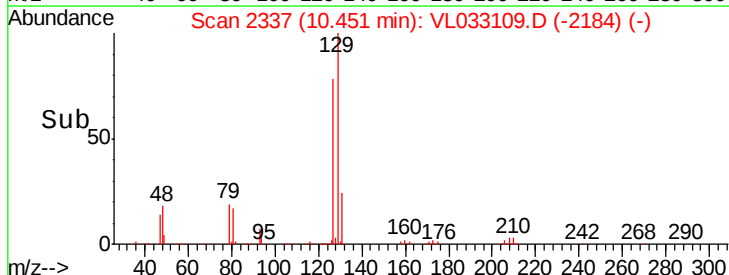
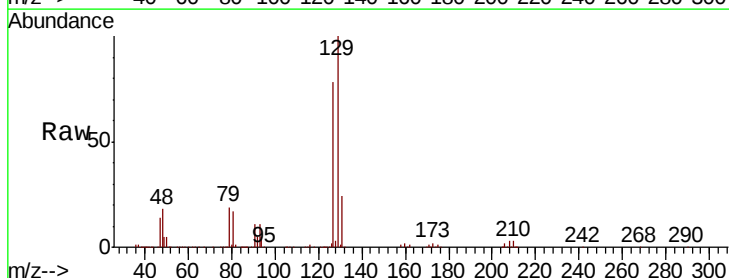
Manual Integrations
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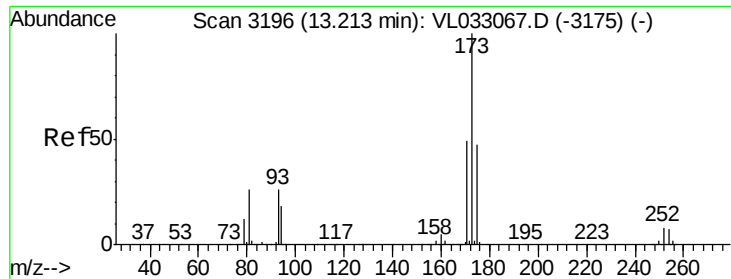
sam
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#48
 Dibromochloromethane
 Concen: 9.438 ppbv
 RT: 10.45 min Scan# 2337
 Delta R.T. -0.01 min
 Lab File: VL033109.D
 Acq: 17 Jan 2019 2:34

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.5	39.1	117.3





#49

Bromoform

Concen: 8.875 ppbv

RT: 13.20 min Scan# 3192

Delta R.T. -0.01 min

Lab File: VL033109.D

Acq: 17 Jan 2019 2:34

Instrument :

MSVOA_L

ClientSampled :

IDOC-2

Tgt Ion: 173 Resp: 1378038

Ion Ratio Lower Upper

173 100

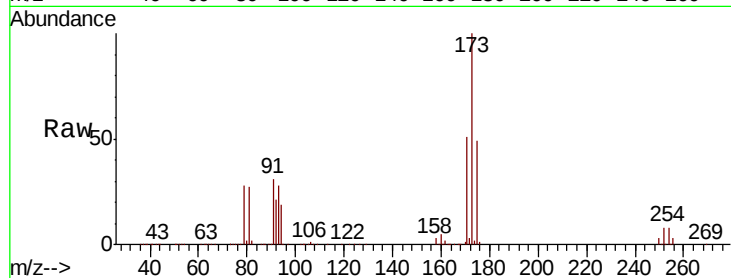
175 48.2 39.4 59.2

171 52.0 42.1 63.1

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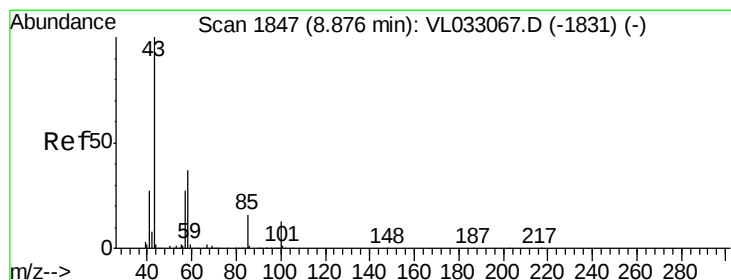
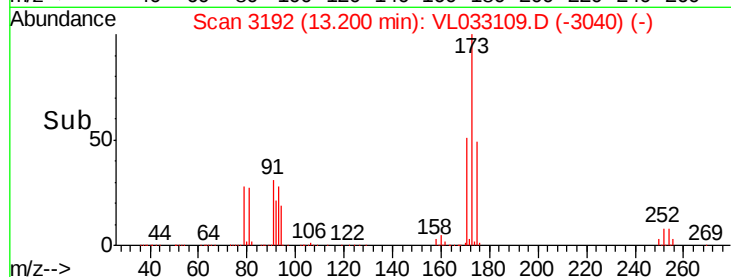
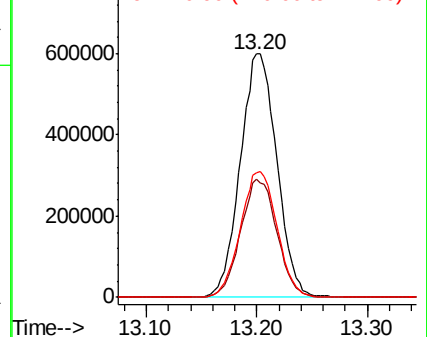
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.351 ppbv

RT: 8.87 min Scan# 1845

Delta R.T. -0.00 min

Lab File: VL033109.D

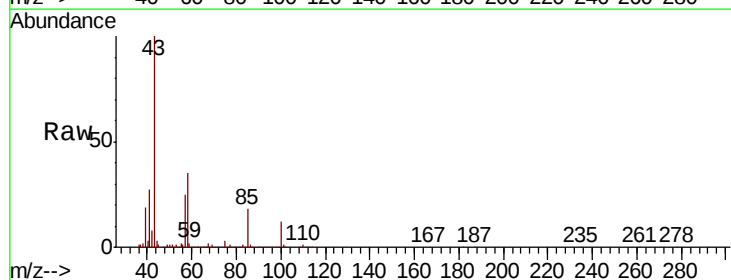
Acq: 17 Jan 2019 2:34

Tgt Ion: 43 Resp: 2132017

Ion Ratio Lower Upper

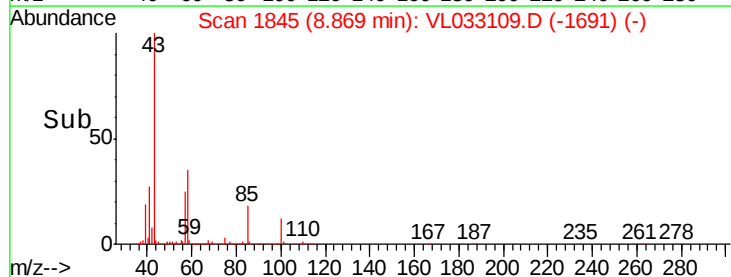
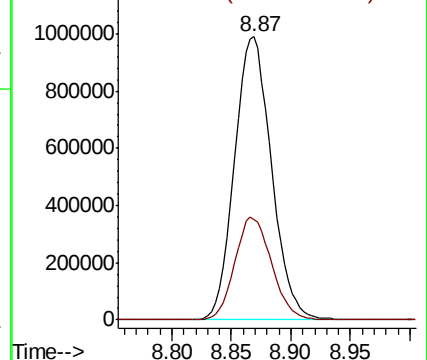
43 100

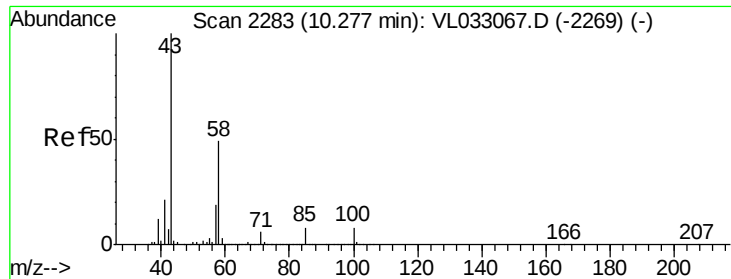
58 36.1 28.9 43.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





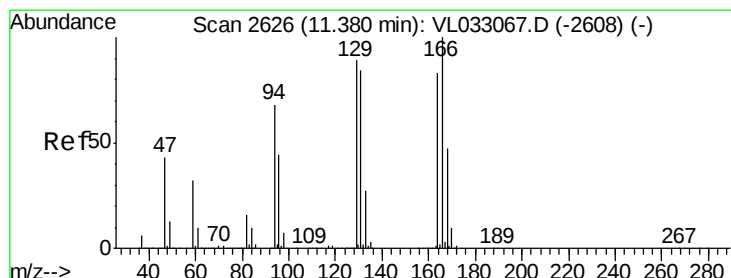
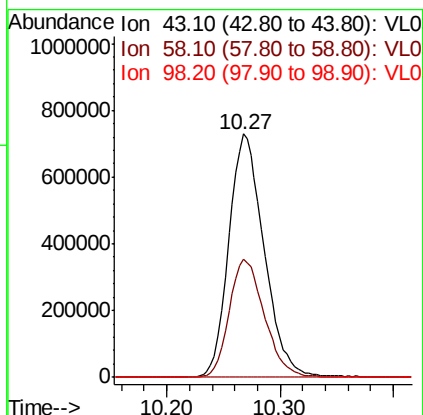
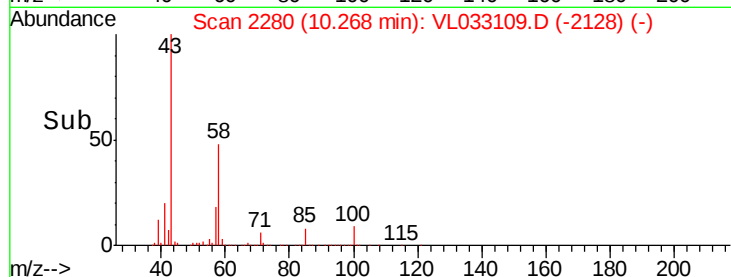
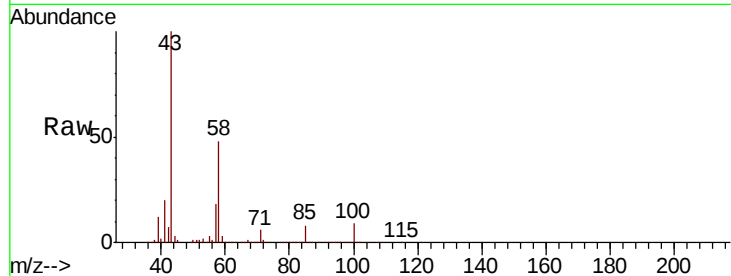
#51
2-Hexanone
Concen: 10.564 ppbv
RT: 10.27 min Scan# 2280
Delta R.T. -0.01 min
Lab File: VL033109.D
Acq: 17 Jan 2019 2:34

Instrument :
MSVOA_L
ClientSampled :
IDOC-2

Tgt Ion: 43 Resp: 1574482
Ion Ratio Lower Upper
43 100
58 48.6 39.0 58.6
98 0.4 0.4 0.6

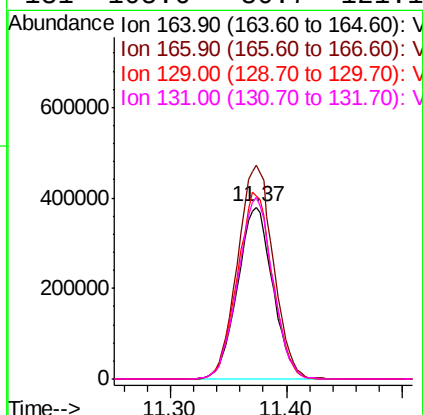
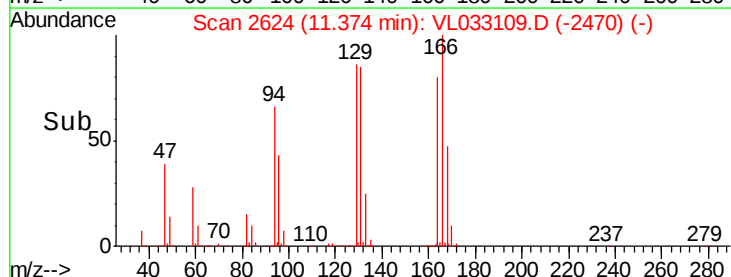
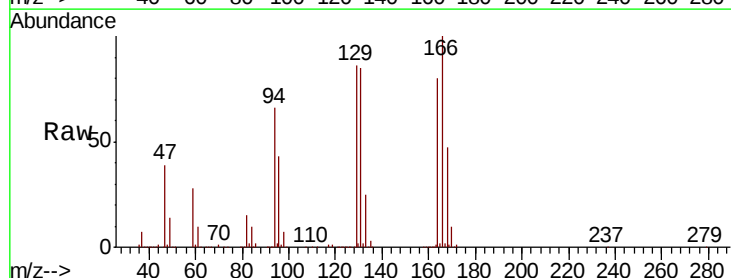
Manual Integrations
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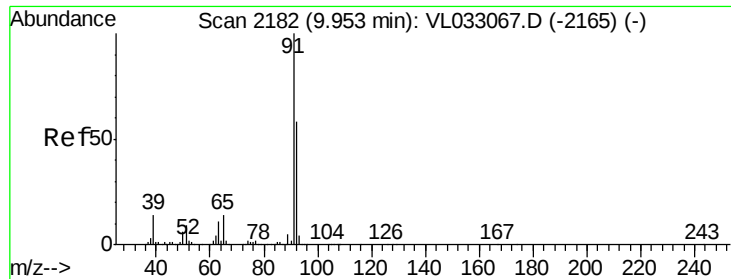
sam
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#52
Tetrachloroethene
Concen: 9.830 ppbv
RT: 11.37 min Scan# 2624
Delta R.T. -0.00 min
Lab File: VL033109.D
Acq: 17 Jan 2019 2:34

Tgt Ion: 164 Resp: 796334
Ion Ratio Lower Upper
164 100
166 124.2 100.8 151.2
129 106.5 84.6 126.8
131 105.6 80.7 121.1





#53

Toluene

Concen: 10.533 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.01 min

Lab File: VL033109.D

Acq: 17 Jan 2019 2:34

Instrument :

MSVOA_L

ClientSampled :

IDOC-2

Tgt Ion: 91 Resp: 2586872

Ion Ratio Lower Upper

91 100

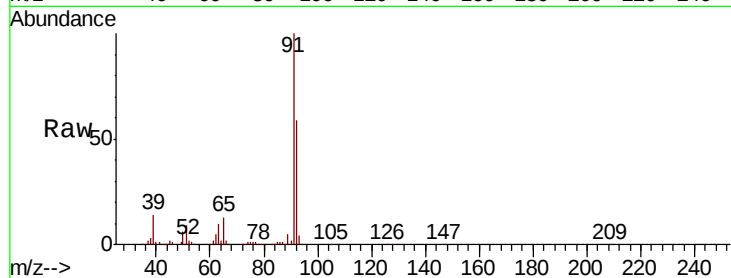
92 59.5 47.7 71.5

Manual Integrations

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Abundance Ion 91.10 (90.80 to 91.80): VL0

1500000 Ion 92.10 (91.80 to 92.80): VL0

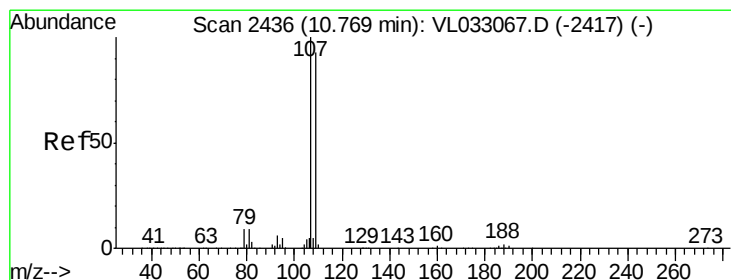
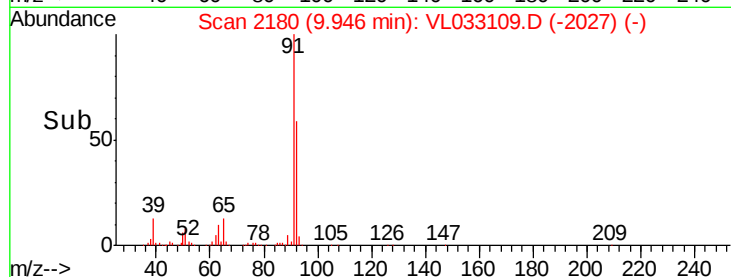
9.95

1000000

500000

0

Time-->



#54

1,2-Dibromoethane

Concen: 9.641 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. -0.01 min

Lab File: VL033109.D

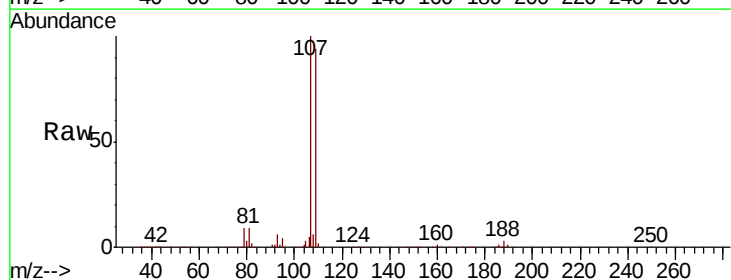
Acq: 17 Jan 2019 2:34

Tgt Ion: 107 Resp: 1397213

Ion Ratio Lower Upper

107 100

109 93.5 74.9 112.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

10.76

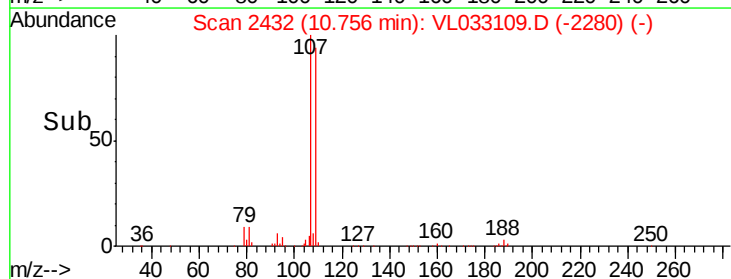
600000

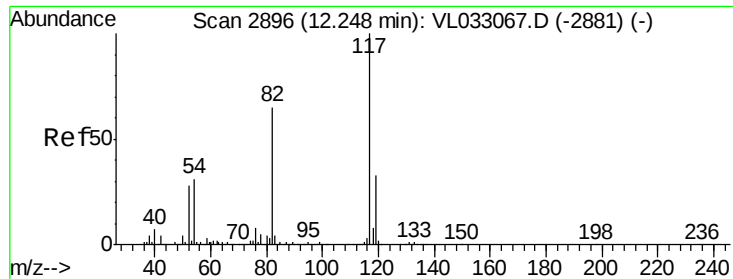
400000

200000

0

Time-->





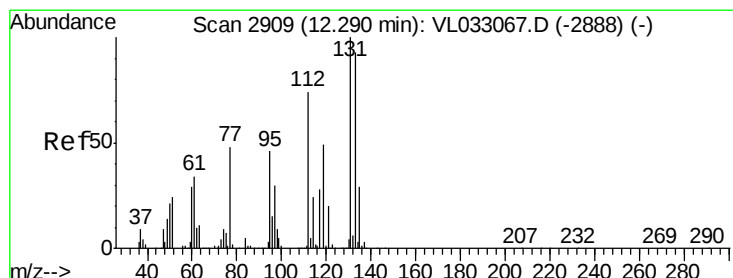
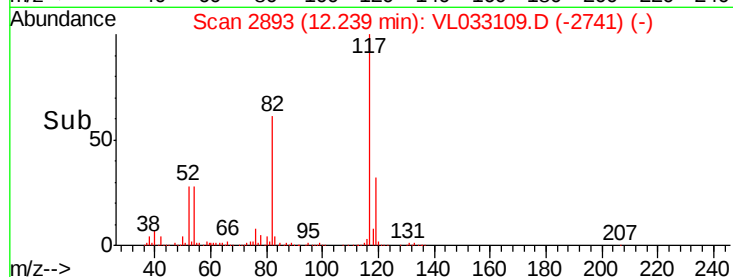
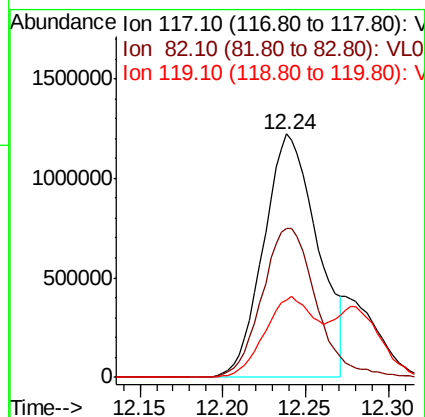
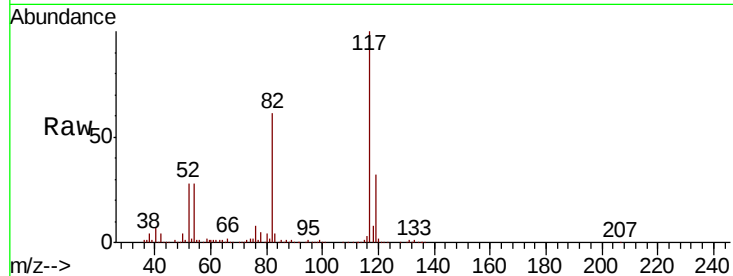
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL033109.D
Acq: 17 Jan 2019 2:34

Instrument :
MSVOA_L
ClientSampleId :
IDOC-2

Tgt Ion:117 Resp: 2758764
Ion Ratio Lower Upper
117 100
82 62.3 48.9 73.3
119 29.6 24.6 37.0

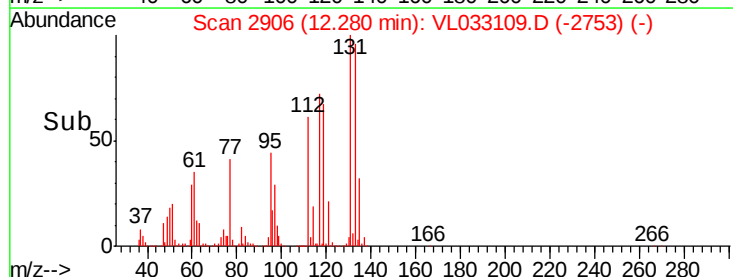
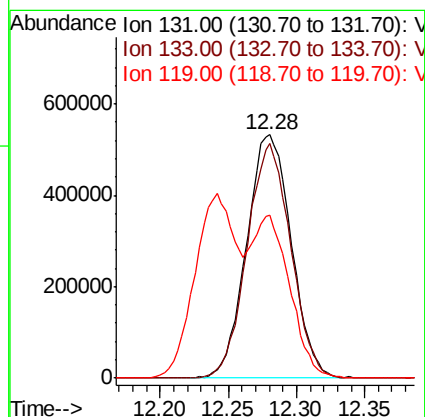
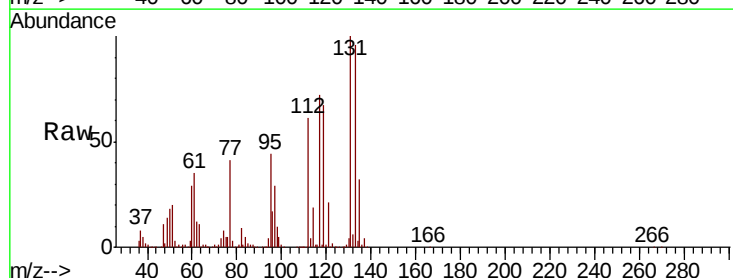
Manual Integrations
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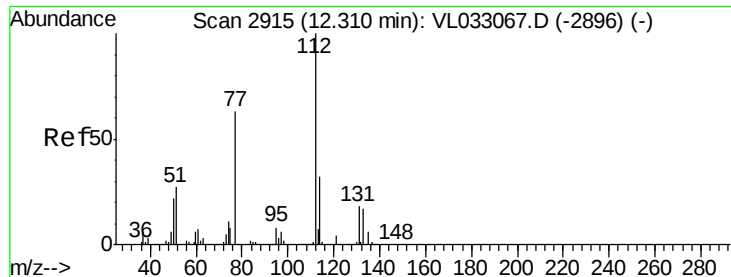
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.489 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. -0.01 min
Lab File: VL033109.D
Acq: 17 Jan 2019 2:34

Tgt Ion:131 Resp: 1210111
Ion Ratio Lower Upper
131 100
133 94.5 76.0 114.0
119 58.7 44.2 66.2





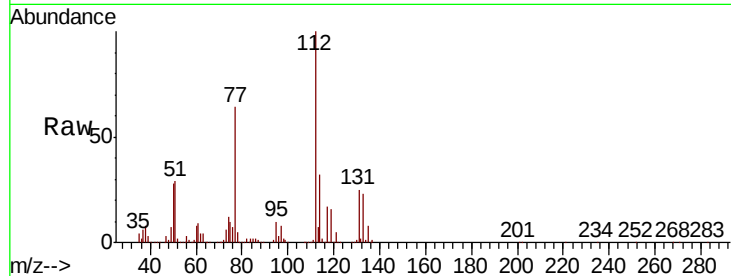
#57
Chlorobenzene
Concen: 8.556 ppbv
RT: 12.30 min Scan# 2912
Delta R.T. -0.01 min
Lab File: VL033109.D
Acq: 17 Jan 2019 2:34

Instrument :
MSVOA_L
ClientSampleId :
IDOC-2

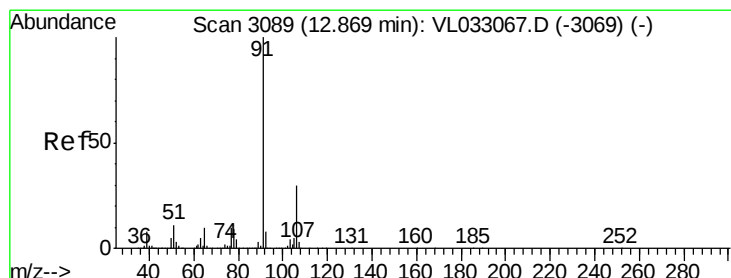
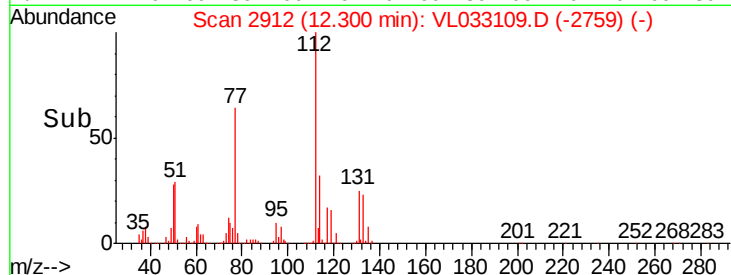
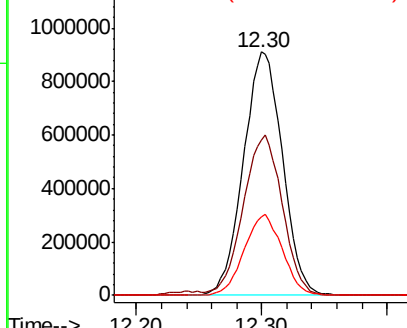
Tgt Ion: 112 Resp: 1970299
Ion Ratio Lower Upper
112 100
77 63.4 53.4 80.0
114 32.3 30.0 36.6

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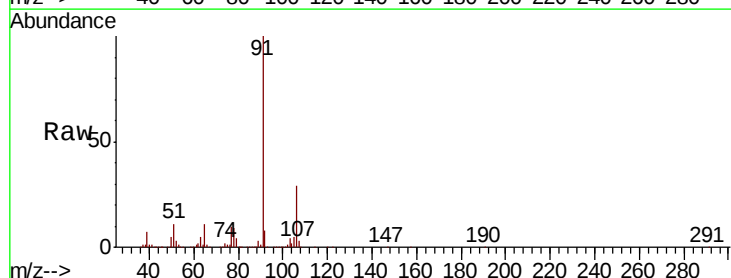


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

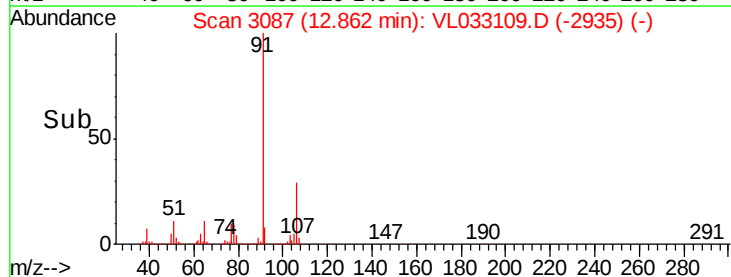
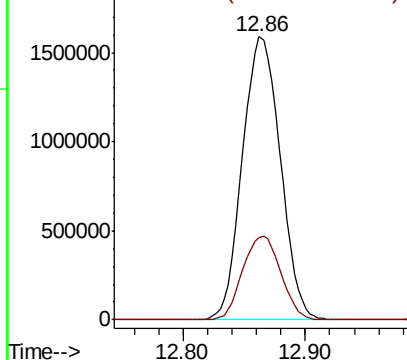


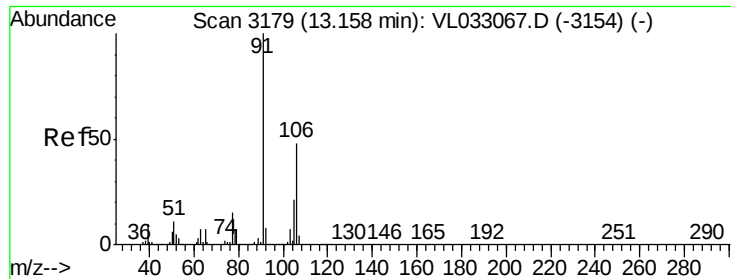
#58
Ethyl Benzene
Concen: 9.785 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. -0.01 min
Lab File: VL033109.D
Acq: 17 Jan 2019 2:34

Tgt Ion: 91 Resp: 3408427
Ion Ratio Lower Upper
91 100
106 29.3 24.3 36.5



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





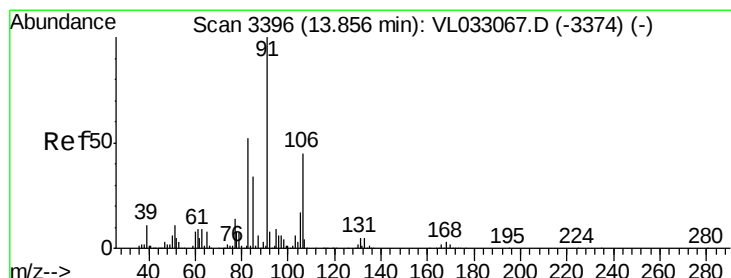
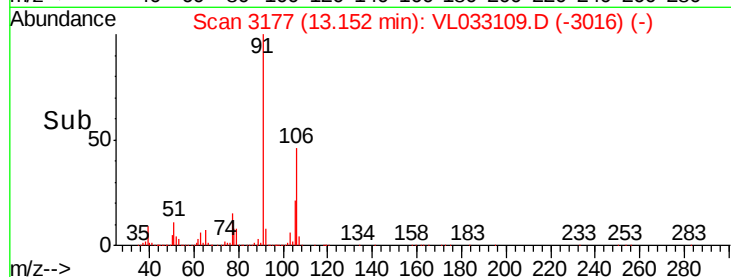
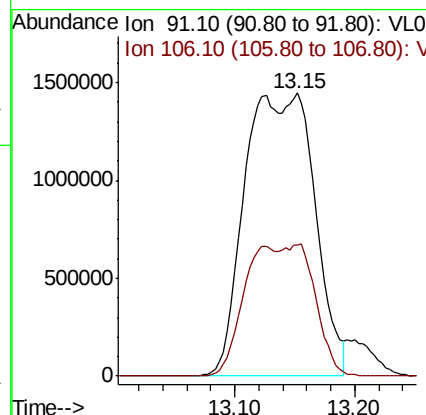
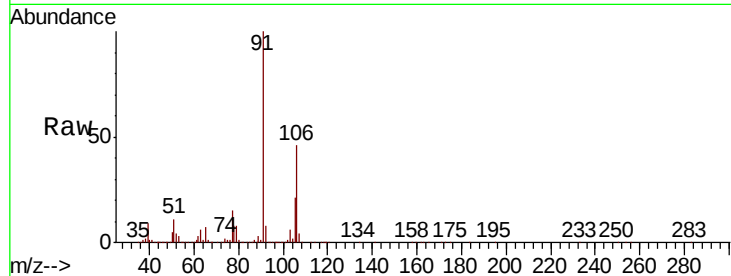
#59
m/p-Xylene
Concen: 17.922 ppbv m
RT: 13.15 min Scan# 3177
Delta R.T. 0.02 min
Lab File: VL033109.D
Acq: 17 Jan 2019 2:34

Instrument :
MSVOA_L
ClientSampleId :
IDOC-2

Tgt Ion: 91 Resp: 5774954
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

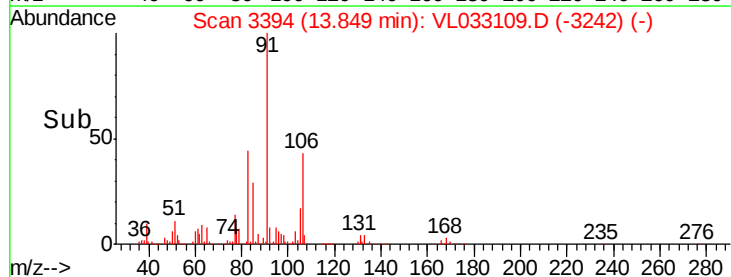
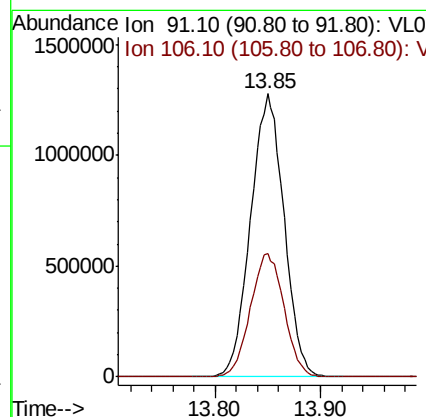
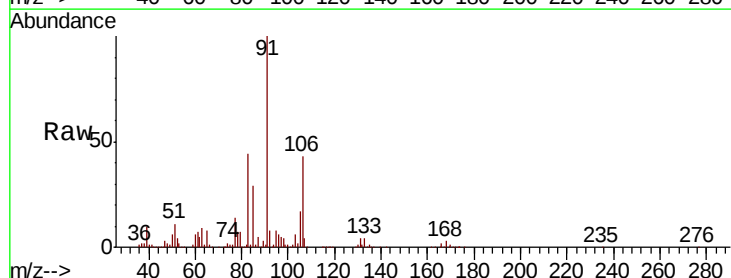
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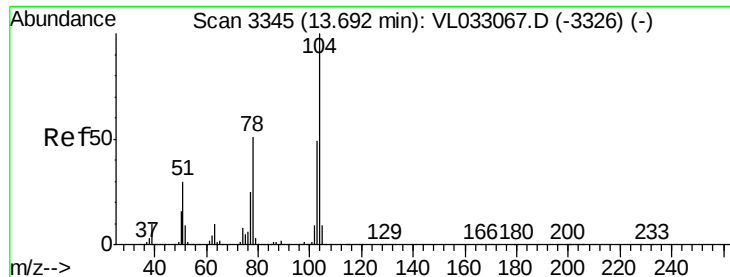
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#60
o-Xylene
Concen: 8.928 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. -0.01 min
Lab File: VL033109.D
Acq: 17 Jan 2019 2:34

Tgt Ion: 91 Resp: 2816242
Ion Ratio Lower Upper
91 100
106 43.9 22.1 66.5





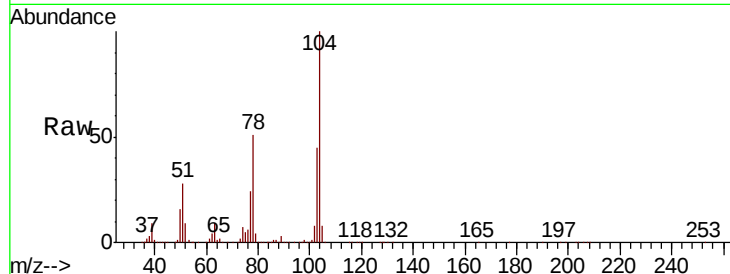
#61
Styrene
Concen: 10.277 ppbv
RT: 13.69 min Scan# 3343
Delta R.T. -0.01 min
Lab File: VL033109.D
Acq: 17 Jan 2019 2:34

Instrument :
MSVOA_L
ClientSampleId :
IDOC-2

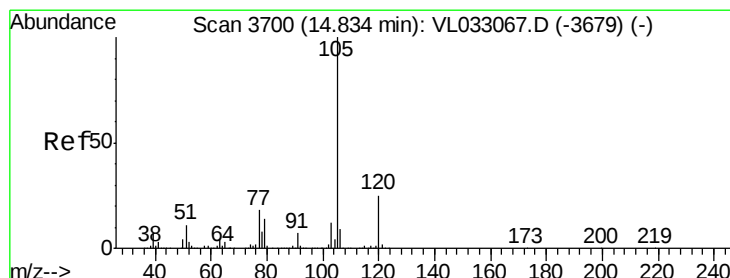
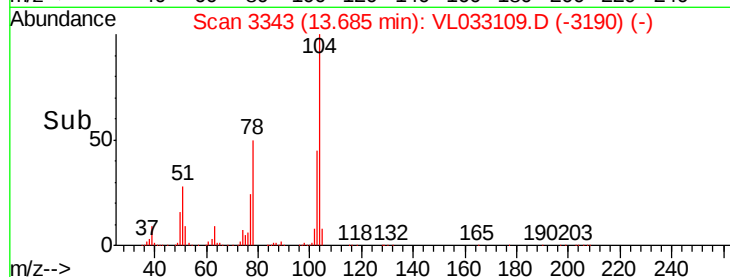
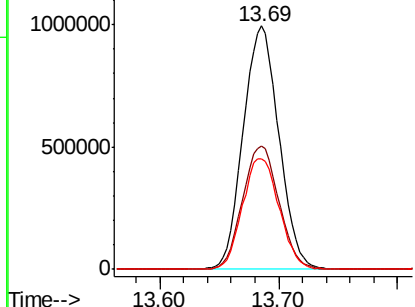
Tgt Ion	Ratio	Lower	Upper
104	100		
78	51.8	41.6	62.4
103	47.2	38.1	57.1

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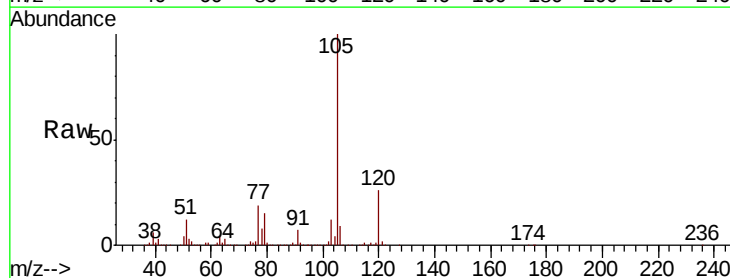


Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VL0
Ion 103.10 (102.80 to 103.80): V

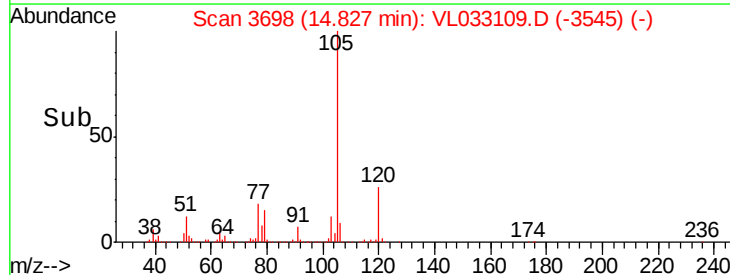
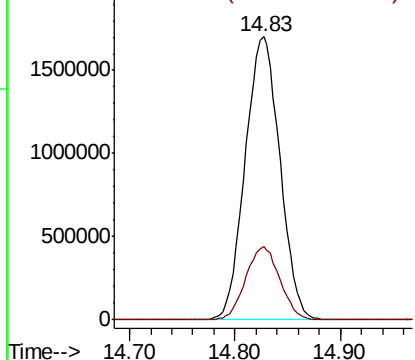


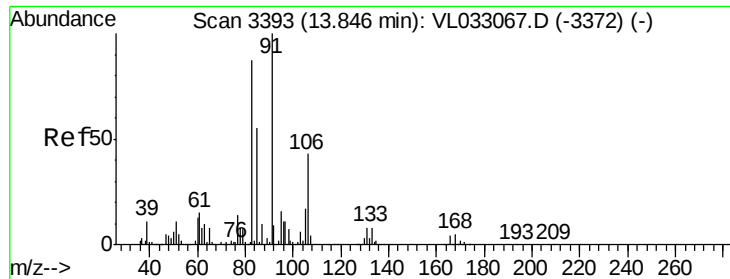
#62
Isopropylbenzene
Concen: 8.703 ppbv
RT: 14.83 min Scan# 3698
Delta R.T. -0.01 min
Lab File: VL033109.D
Acq: 17 Jan 2019 2:34

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.4	20.4	30.6



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





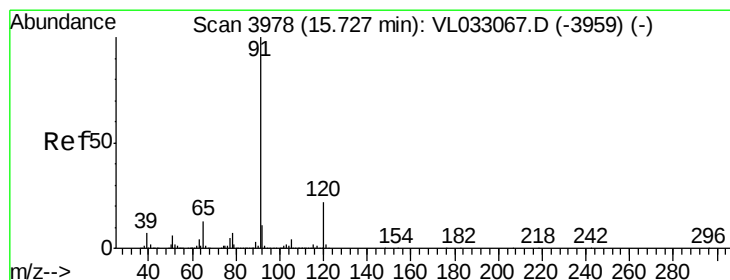
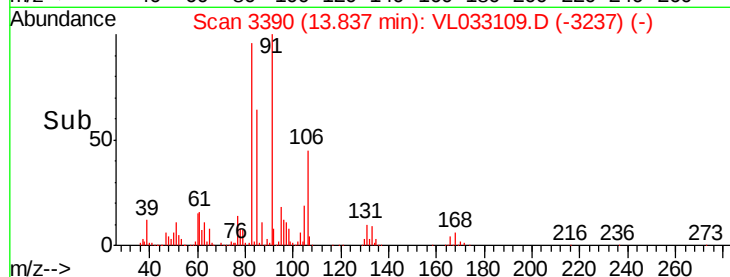
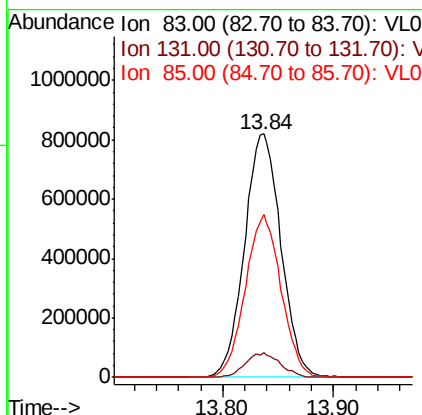
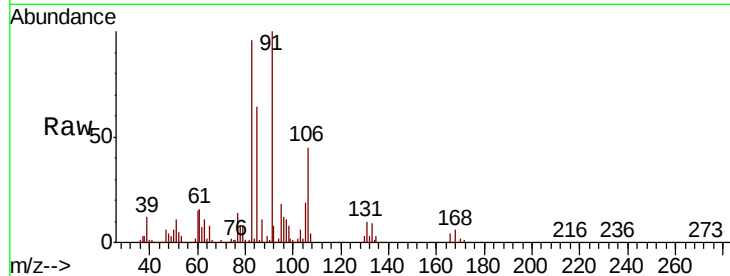
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.018 ppbv
 RT: 13.84 min Scan# 3390
 Delta R.T. -0.01 min
 Lab File: VL033109.D
 Acq: 17 Jan 2019 2:34

Instrument :
 MSVOA_L
 ClientSampled :
 IDOC-2

Tgt Ion: 83 Resp: 1878762
 Ion Ratio Lower Upper
 83 100
 131 9.7 4.8 14.4
 85 65.6 32.6 97.8

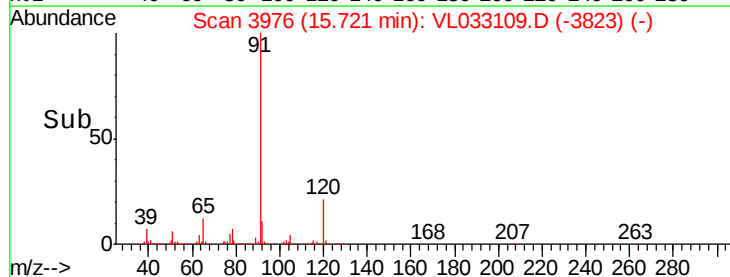
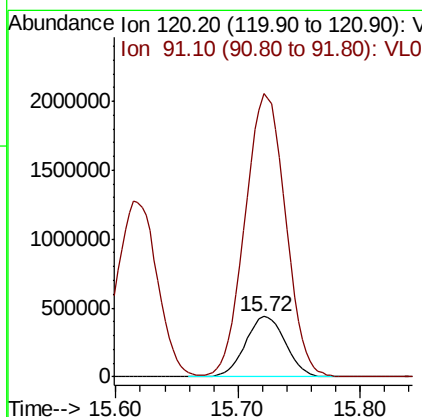
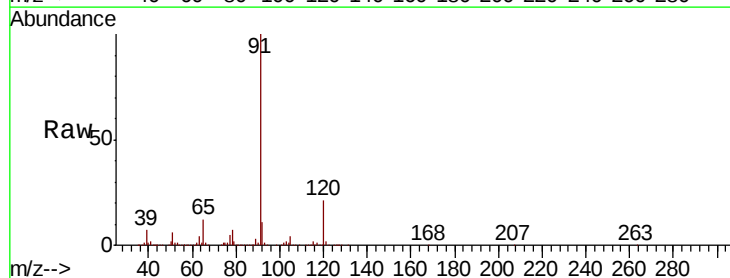
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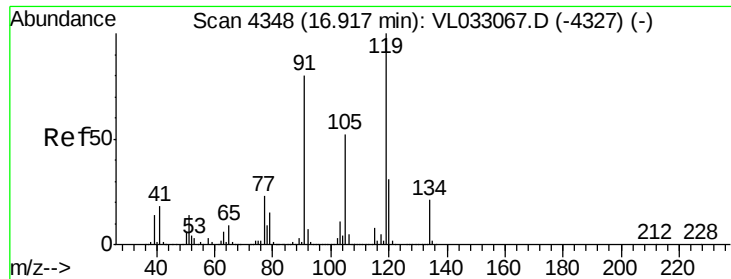
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#64
 n-propylbenzene
 Concen: 8.700 ppbv
 RT: 15.72 min Scan# 3976
 Delta R.T. -0.01 min
 Lab File: VL033109.D
 Acq: 17 Jan 2019 2:34

Tgt Ion: 120 Resp: 992106
 Ion Ratio Lower Upper
 120 100
 91 477.7 378.7 568.1





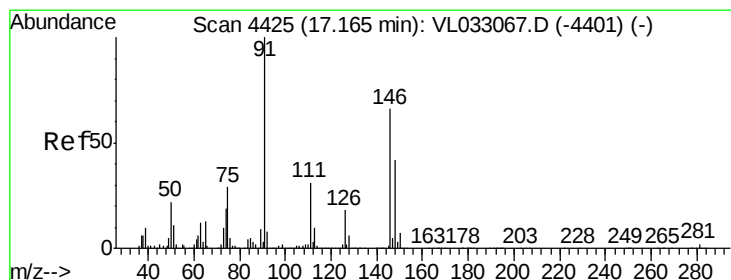
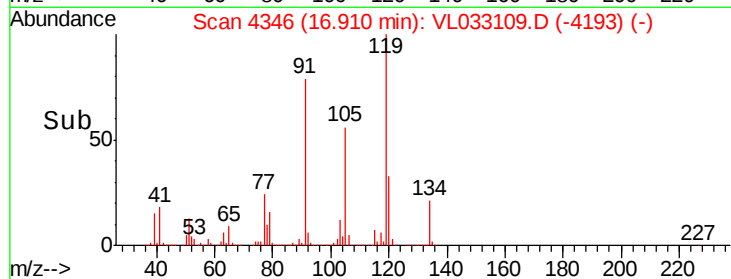
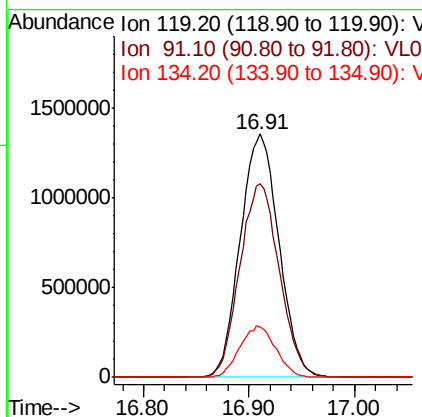
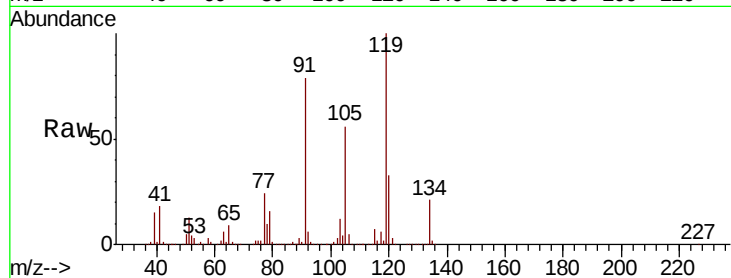
#65
tert-Butylbenzene
Concen: 8.705 ppbv
RT: 16.91 min Scan# 4346
Delta R.T. -0.01 min
Lab File: VL033109.D
Acq: 17 Jan 2019 2:34

Instrument :
MSVOA_L
ClientSampled :
IDOC-2

Tgt Ion: 119 Resp: 3461389
Ion Ratio Lower Upper
119 100
91 81.5 64.6 97.0
134 19.8 15.8 23.8

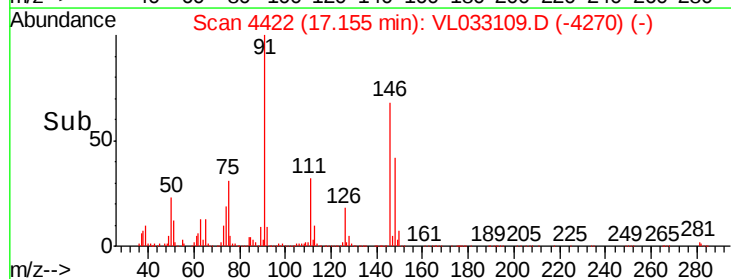
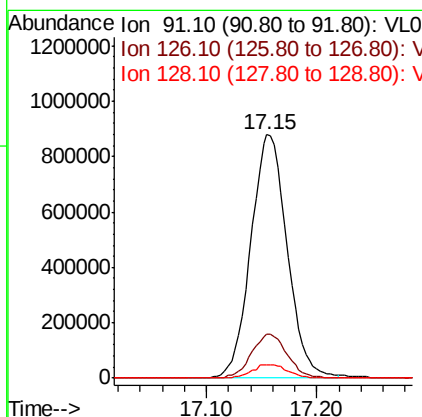
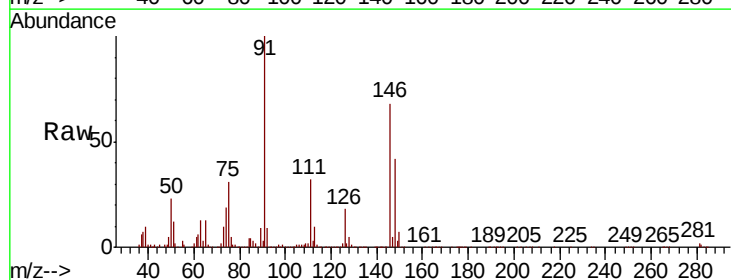
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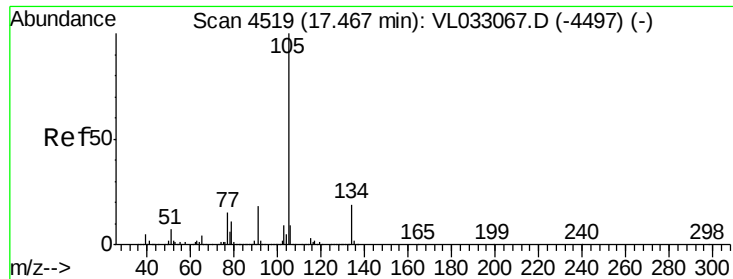
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#66
Benzyl Chloride
Concen: 8.857 ppbv
RT: 17.15 min Scan# 4422
Delta R.T. -0.01 min
Lab File: VL033109.D
Acq: 17 Jan 2019 2:34

Tgt Ion: 91 Resp: 2007370
Ion Ratio Lower Upper
91 100
126 18.0 14.4 21.6
128 5.6 4.5 6.7





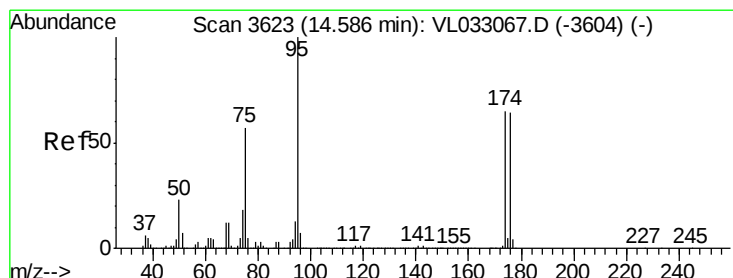
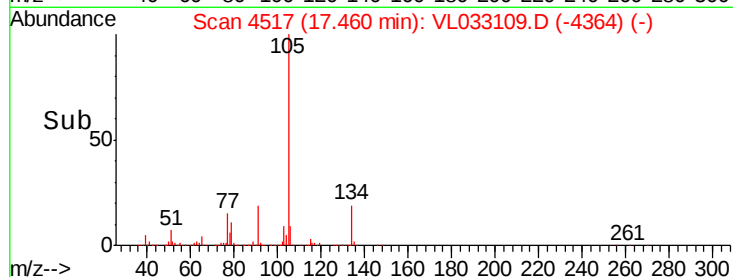
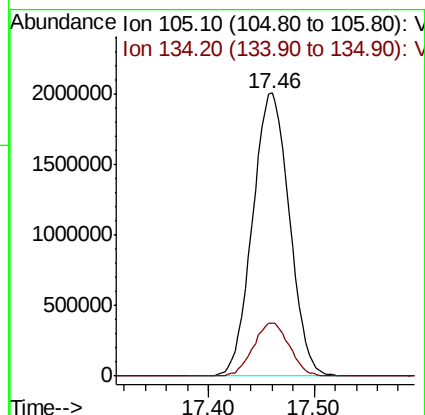
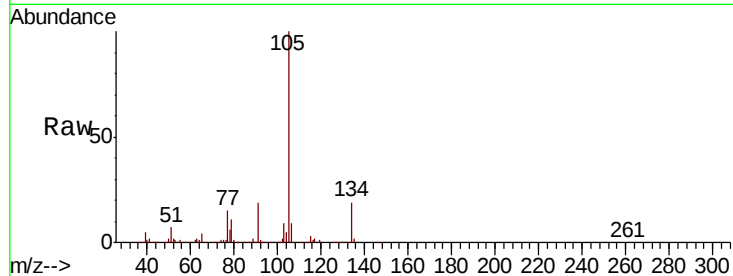
#67
 sec-Butylbenzene
 Concen: 8.607 ppbv
 RT: 17.46 min Scan# 4517
 Delta R.T. -0.01 min
 Lab File: VL033109.D
 Acq: 17 Jan 2019 2:34

Instrument :
 MSVOA_L
 ClientSampleId :
 IDOC-2

Tgt Ion: 105 Resp: 4898059
 Ion Ratio Lower Upper
 105 100
 134 18.4 14.6 21.8

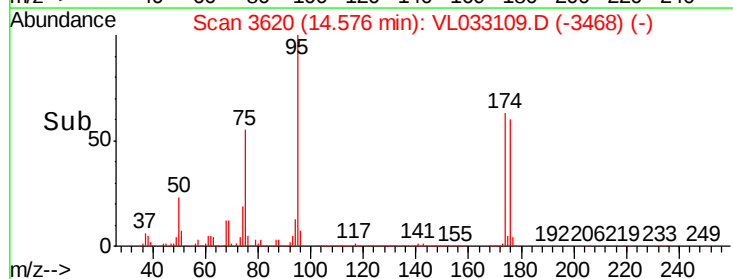
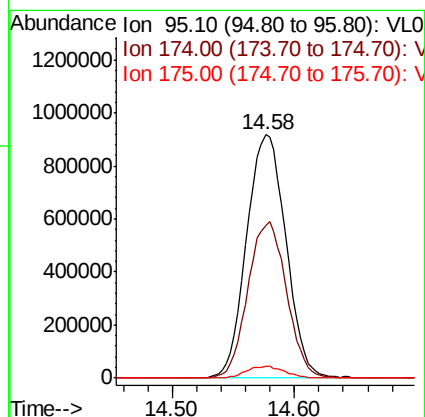
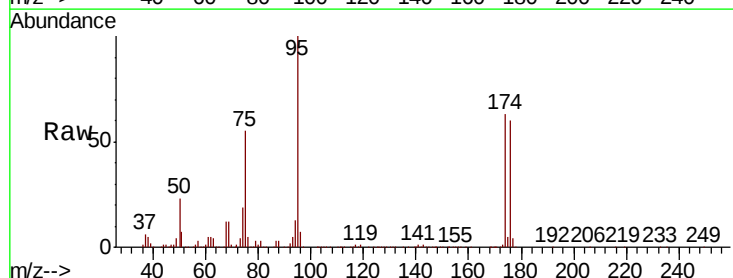
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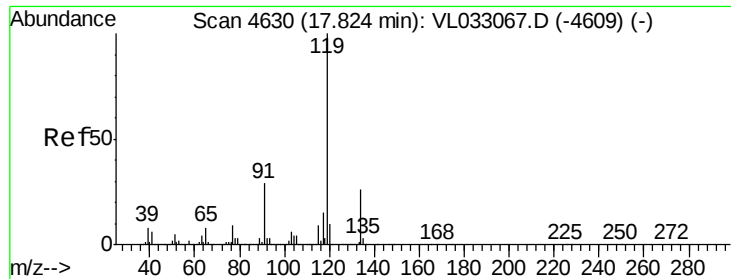
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.662 ppbv
 RT: 14.58 min Scan# 3620
 Delta R.T. -0.01 min
 Lab File: VL033109.D
 Acq: 17 Jan 2019 2:34

Tgt Ion: 95 Resp: 2043332
 Ion Ratio Lower Upper
 95 100
 174 63.5 51.9 77.9
 175 4.8 3.9 5.9





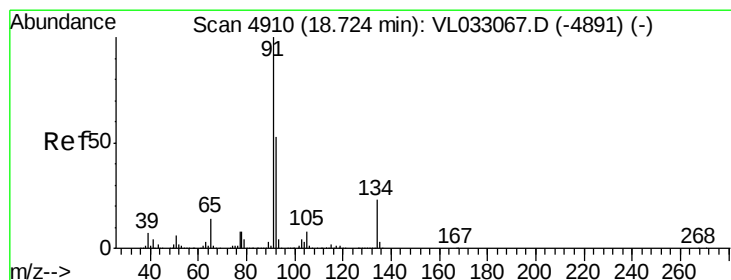
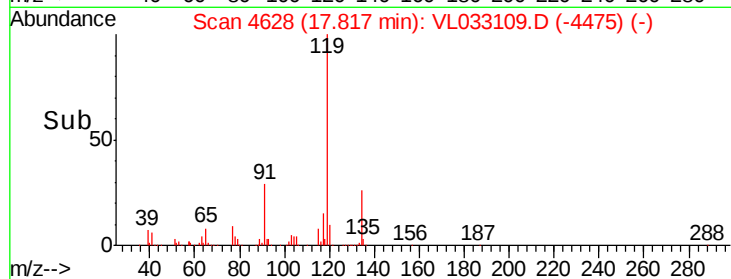
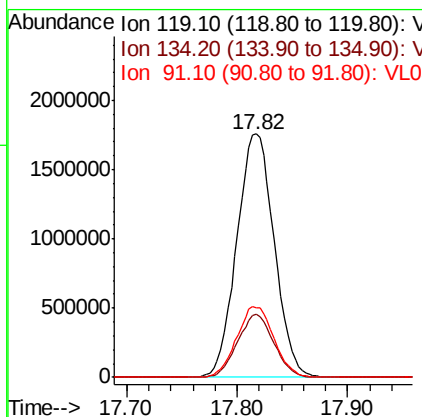
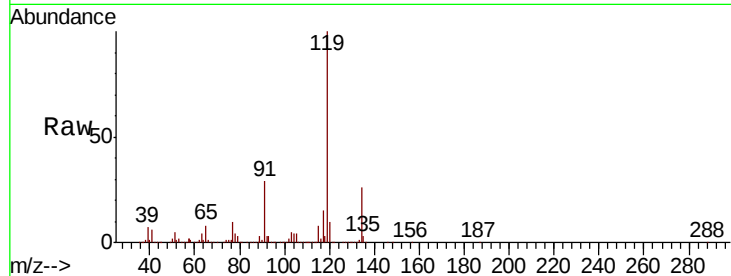
#69
p-Isopropyltoluene
Concen: 8.934 ppbv
RT: 17.82 min Scan# 4628
Delta R.T. -0.01 min
Lab File: VL033109.D
Acq: 17 Jan 2019 2:34

Instrument :
MSVOA_L
ClientSampleId :
IDOC-2

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.1	30.1
91	29.1	23.0	34.4

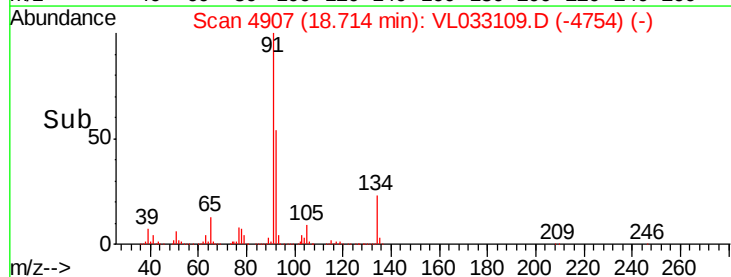
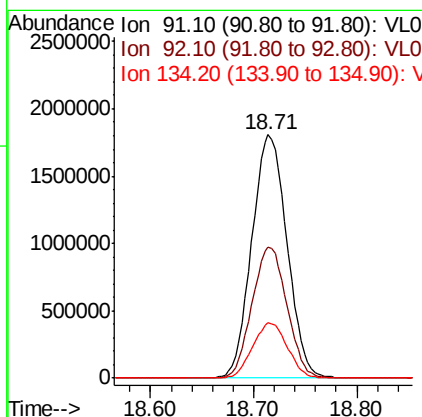
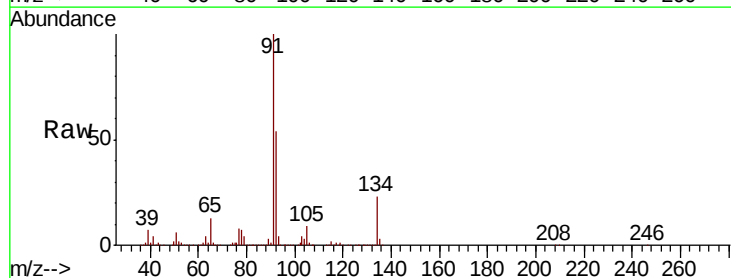
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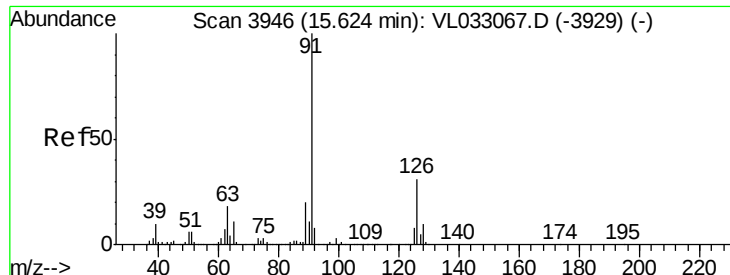
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#70
n-Butylbenzene
Concen: 9.218 ppbv
RT: 18.71 min Scan# 4907
Delta R.T. -0.01 min
Lab File: VL033109.D
Acq: 17 Jan 2019 2:34

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.4	42.4	63.6
134	22.5	18.0	27.0





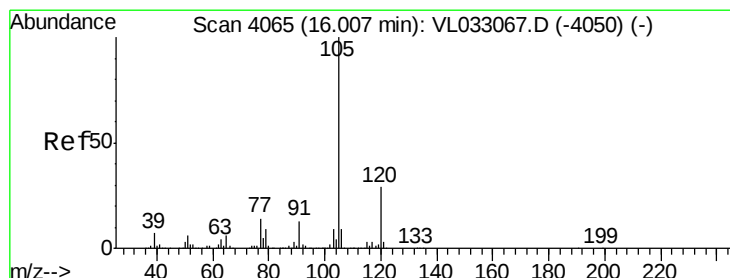
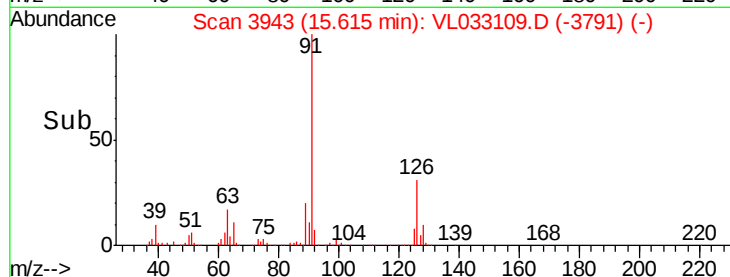
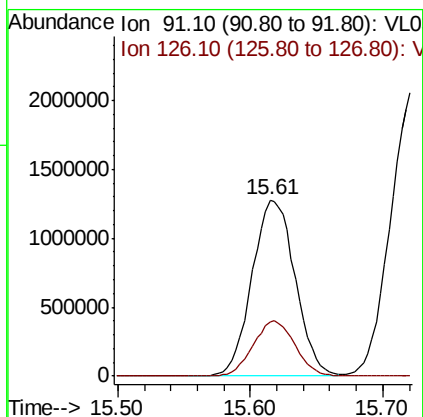
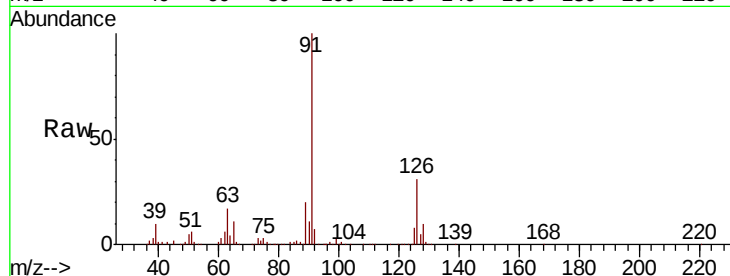
#71
2-Chlorotoluene
Concen: 9.066 ppbv
RT: 15.61 min Scan# 3943
Delta R.T. -0.01 min
Lab File: VL033109.D
Acq: 17 Jan 2019 2:34

Instrument :
MSVOA_L
ClientSampleId :
IDOC-2

Tgt Ion: 91 Resp: 2886463
Ion Ratio Lower Upper
91 100
126 30.6 12.4 49.6

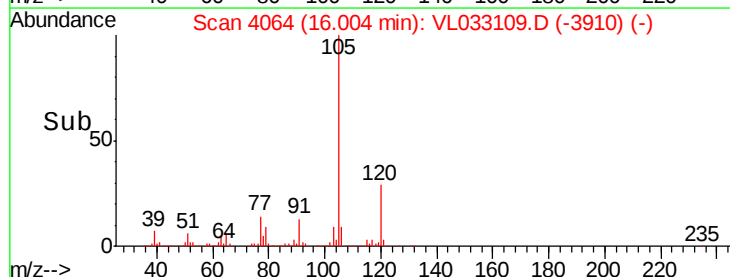
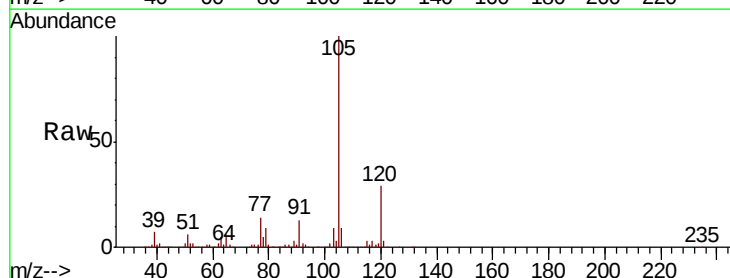
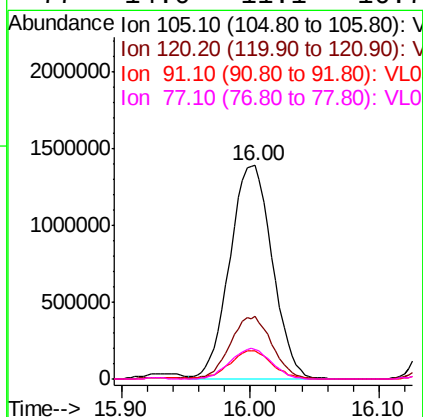
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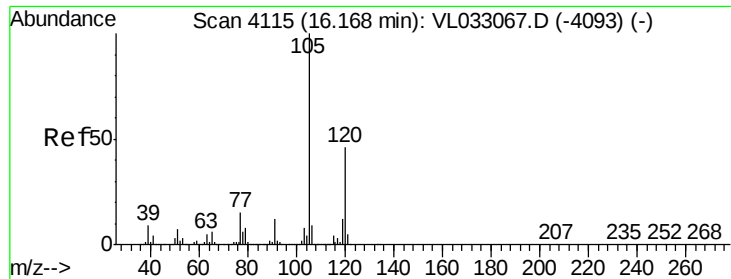
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#72
4-Ethyltoluene
Concen: 9.181 ppbv
RT: 16.00 min Scan# 4064
Delta R.T. -0.00 min
Lab File: VL033109.D
Acq: 17 Jan 2019 2:34

Tgt Ion: 105 Resp: 3182659
Ion Ratio Lower Upper
105 100
120 28.7 23.0 34.6
91 13.8 10.3 15.5
77 14.0 11.1 16.7





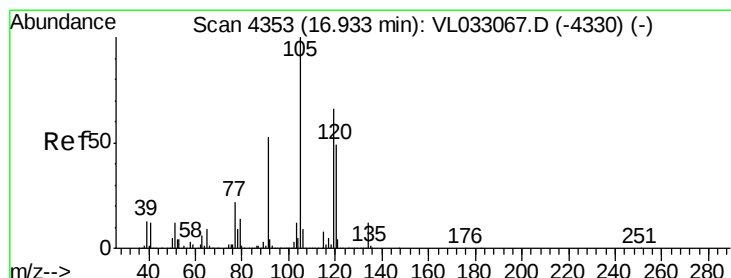
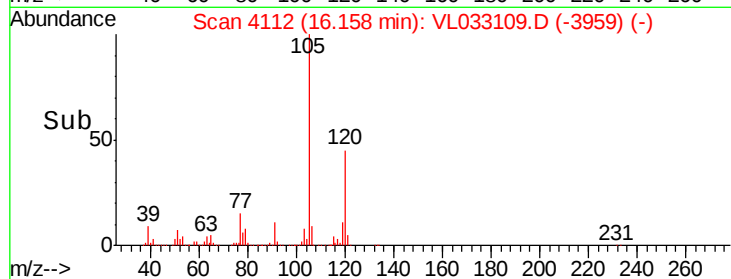
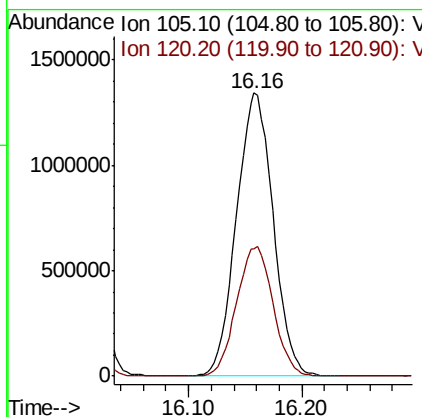
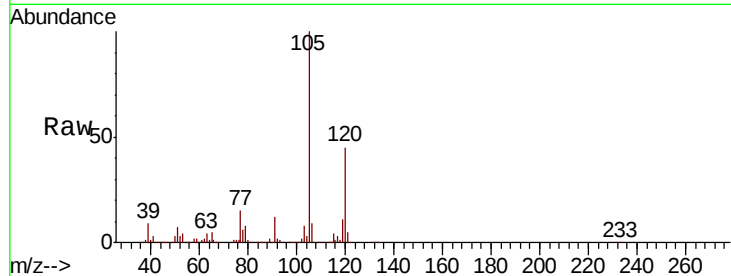
#73
 1,3,5-Trimethylbenzene
 Concen: 8.838 ppbv
 RT: 16.16 min Scan# 4112
 Delta R.T. -0.01 min
 Lab File: VL033109.D
 Acq: 17 Jan 2019 2:34

Instrument :
 MSVOA_L
 ClientSampled :
 IDOC-2

Tgt Ion:105 Resp: 3022797
 Ion Ratio Lower Upper
 105 100
 120 44.8 36.1 54.1

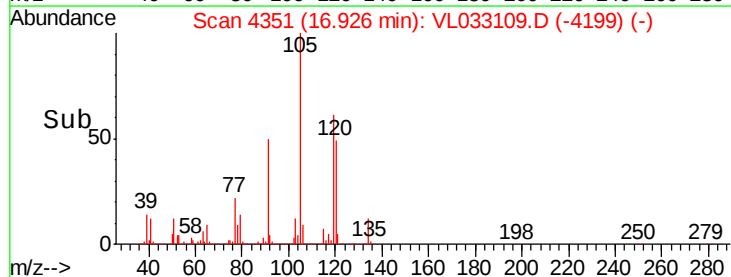
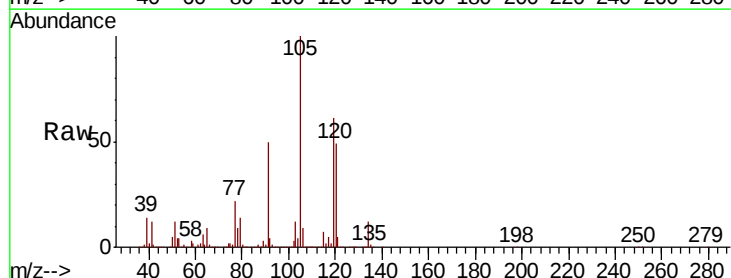
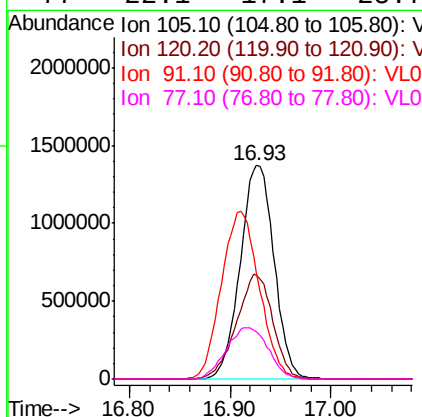
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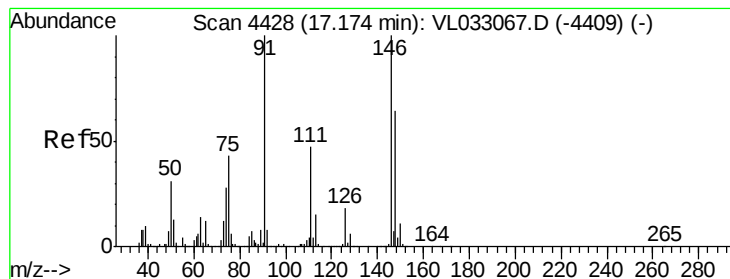
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#74
 1,2,4-Trimethylbenzene
 Concen: 8.415 ppbv
 RT: 16.93 min Scan# 4351
 Delta R.T. -0.01 min
 Lab File: VL033109.D
 Acq: 17 Jan 2019 2:34

Tgt Ion:105 Resp: 3187780
 Ion Ratio Lower Upper
 105 100
 120 48.5 37.0 55.4
 91 49.5 35.4 53.0
 77 22.1 17.1 25.7





#75

1,3-Dichlorobenzene

Concen: 8.275 ppbv

RT: 17.16 min Scan# 4425

Delta R.T. -0.01 min

Lab File: VL033109.D

Acq: 17 Jan 2019 2:34

Instrument :

MSVOA_L

ClientSampled :

IDOC-2

Tgt Ion:146 Resp: 1845094

Ion Ratio Lower Upper

146 100

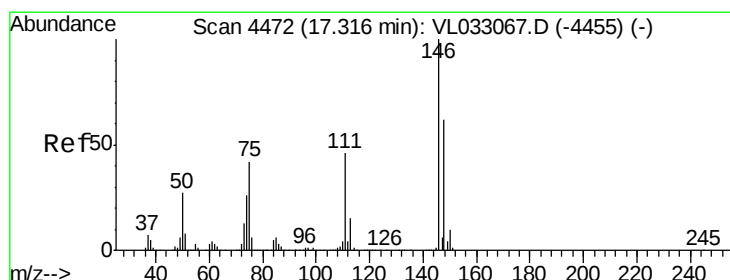
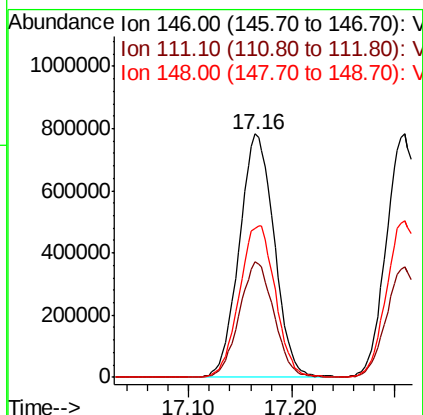
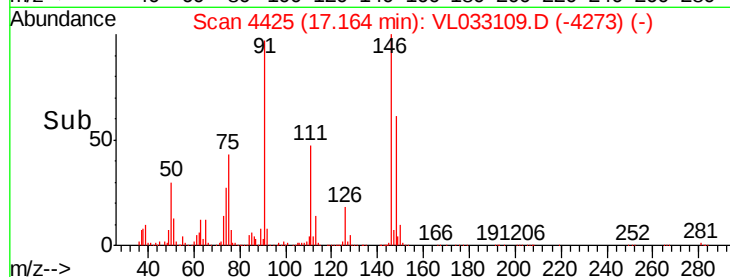
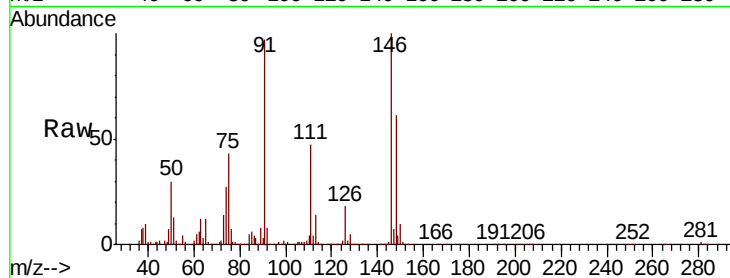
111 47.1 23.4 70.2

148 64.0 32.1 96.3

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#76

1,4-Dichlorobenzene

Concen: 8.891 ppbv

RT: 17.31 min Scan# 4470

Delta R.T. -0.01 min

Lab File: VL033109.D

Acq: 17 Jan 2019 2:34

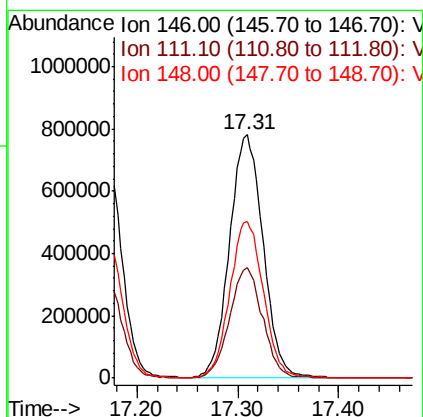
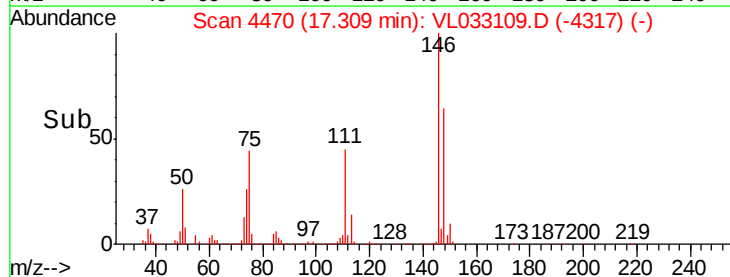
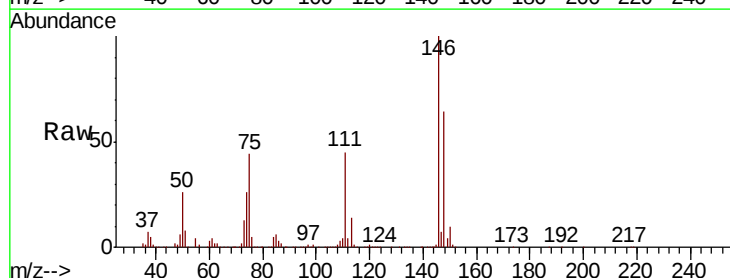
Tgt Ion:146 Resp: 1805867

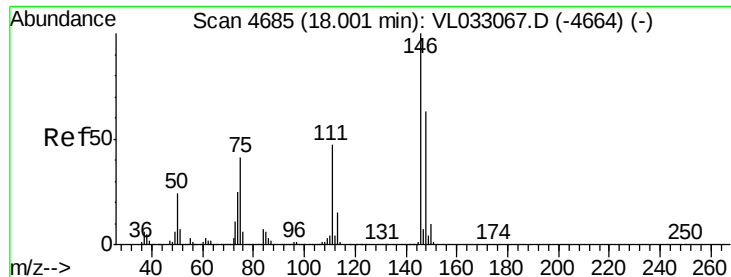
Ion Ratio Lower Upper

146 100

111 45.1 22.7 68.1

148 64.6 32.4 97.2





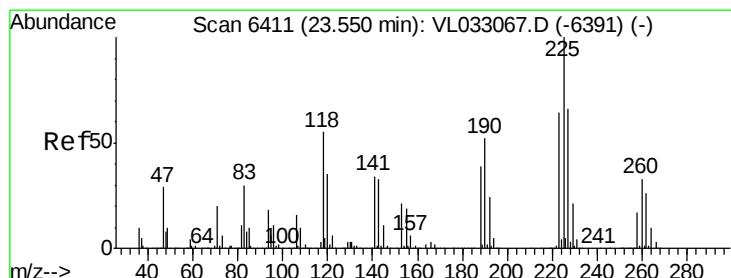
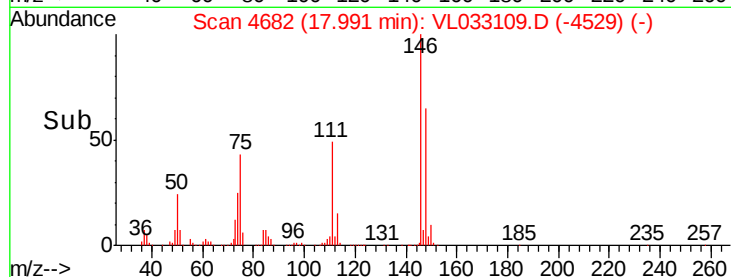
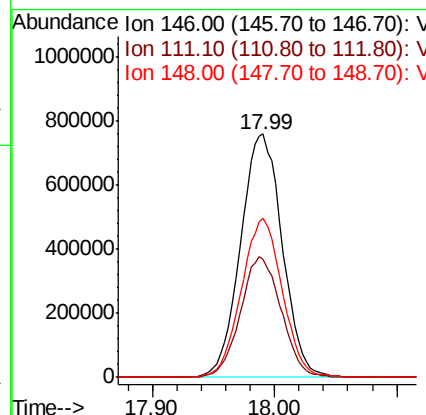
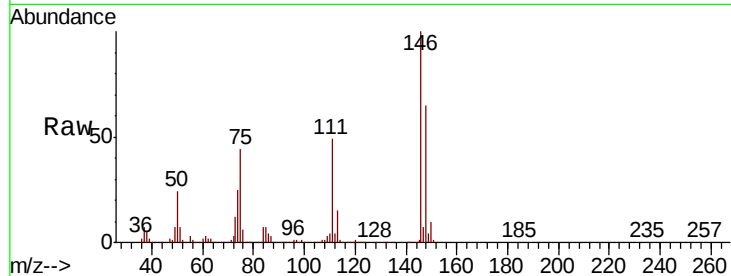
#77
 1,2-Dichlorobenzene
 Concen: 8.910 ppbv
 RT: 17.99 min Scan# 4682
 Delta R.T. -0.01 min
 Lab File: VL033109.D
 Acq: 17 Jan 2019 2:34

Instrument :
 MSVOA_L
 ClientSampled :
 IDOC-2

Tgt Ion:146 Resp: 1789217
 Ion Ratio Lower Upper
 146 100
 111 48.7 24.4 73.2
 148 64.5 32.3 96.9

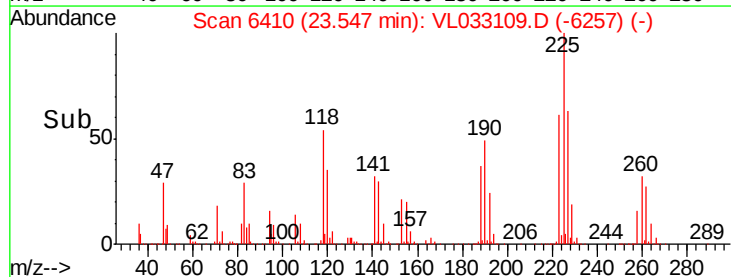
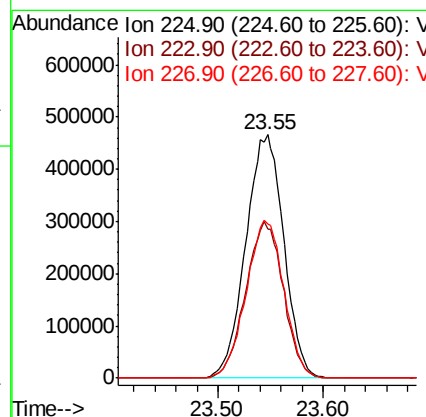
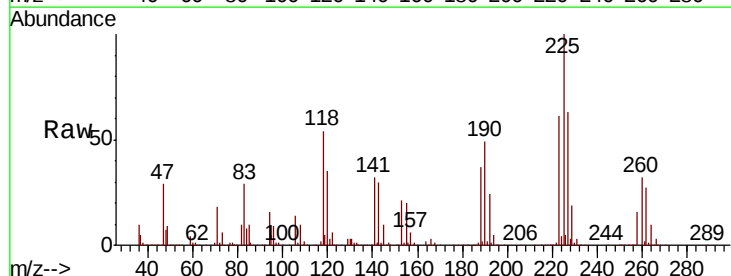
Manual Integrations
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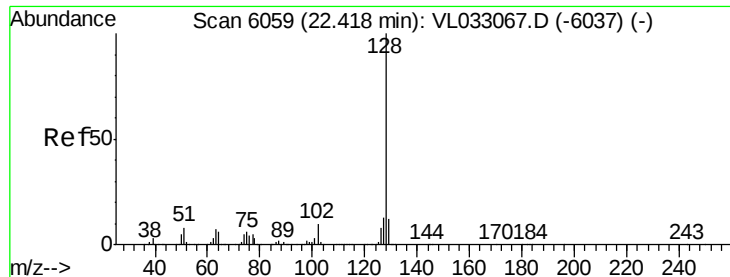
sam
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#78
 Hexachloro-1,3-Butadiene
 Concen: 7.587 ppbv
 RT: 23.55 min Scan# 6410
 Delta R.T. -0.01 min
 Lab File: VL033109.D
 Acq: 17 Jan 2019 2:34

Tgt Ion:225 Resp: 1170189
 Ion Ratio Lower Upper
 225 100
 223 63.6 51.0 76.6
 227 64.3 51.0 76.4





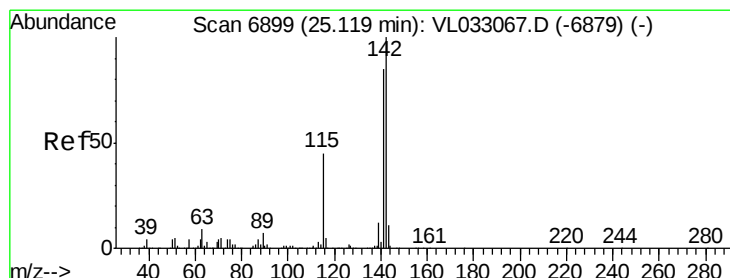
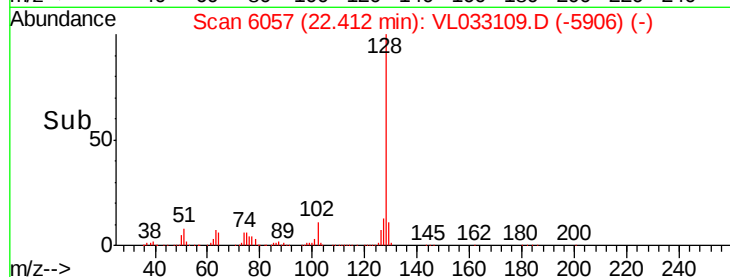
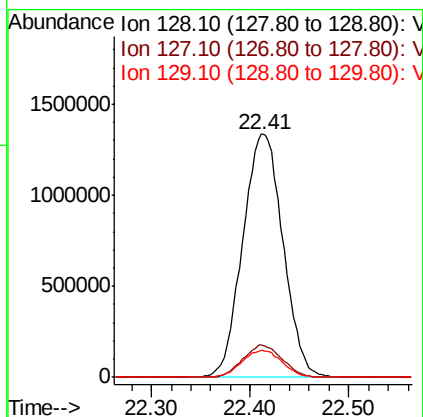
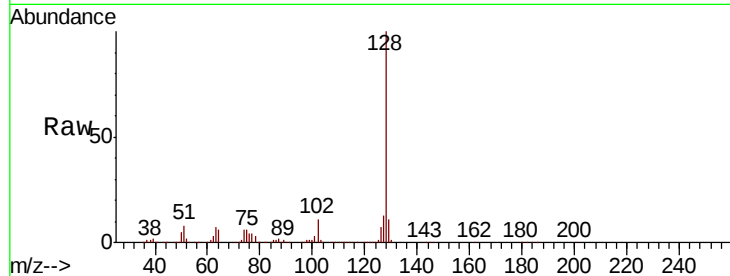
#79
Naphthalene
Concen: 11.831 ppbv
RT: 22.41 min Scan# 6057
Delta R.T. -0.01 min
Lab File: VL033109.D
Acq: 17 Jan 2019 2:34

Instrument :
MSVOA_L
ClientSampleId :
IDOC-2

Tgt Ion:128 Resp: 3774827
Ion Ratio Lower Upper
128 100
127 13.2 11.0 16.6
129 11.0 9.4 14.0

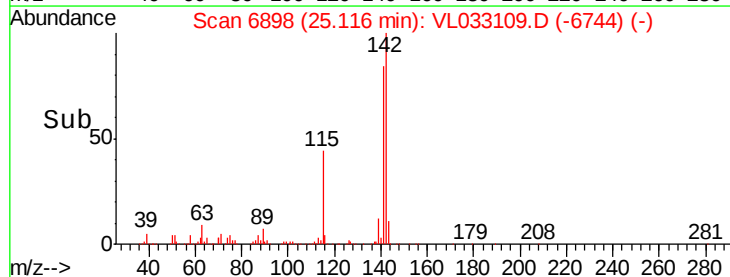
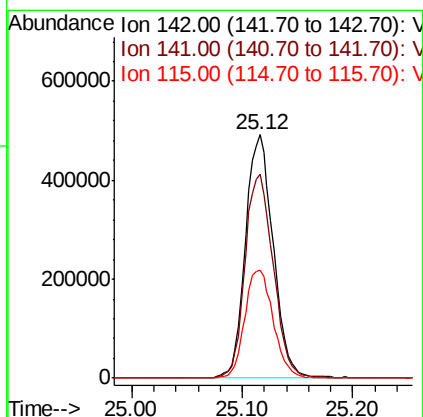
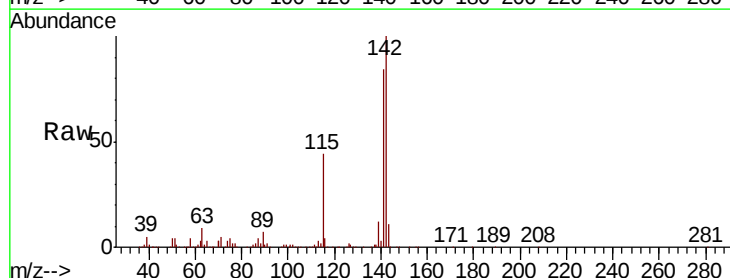
Manual Integrations
APPROVED

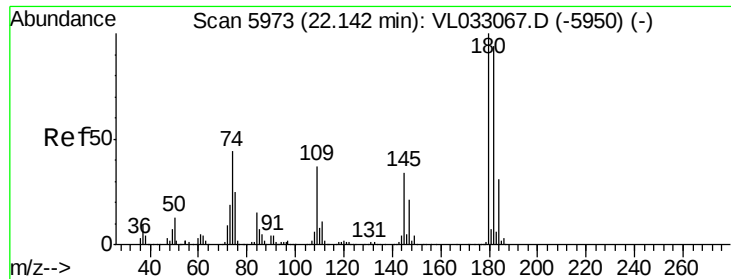
sam
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#80
Naphthalene, 2-methyl-
Concen: 8.812 ppbv
RT: 25.12 min Scan# 6898
Delta R.T. -0.00 min
Lab File: VL033109.D
Acq: 17 Jan 2019 2:34

Tgt Ion:142 Resp: 853289
Ion Ratio Lower Upper
142 100
141 86.3 68.6 103.0
115 45.8 35.6 53.4





#81
 1,2,4-Trichlorobenzene
 Concen: 11.411 ppbv
 RT: 22.14 min Scan# 5972
 Delta R.T. -0.01 min
 Lab File: VL033109.D
 Acq: 17 Jan 2019 2:34

Instrument :
 MSVOA_L
 ClientSampleId :
 IDOC-2

Tgt Ion:180 Resp: 1758962
 Ion Ratio Lower Upper
 180 100
 182 95.8 76.1 114.1
 184 30.3 24.6 37.0

Manual Integrations
 APPROVED

sam
 1/21/2019 8:51:06 AM

