

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062419\
 Data File : VL033932.D
 Acq On : 24 Jun 2019 11:41
 Operator : SY/AP
 Sample : VL0624ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0624ABS01

Quant Time: Jun 25 03:37:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 08:53:27 2019
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.74	49	1127021	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.27	114	2562059	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.21	117	3208634	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.55	95	2147679	8.15	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	81.50%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	1576960	8.623	ppbv 100
3) Chlorodifluoromethane	3.00	51	1090513	8.219	ppbv 100
4) Chloromethane	3.16	50	561618	7.421	ppbv 98
5) Vinyl Chloride	3.28	62	578359	8.237	ppbv 100
6) Bromomethane	3.50	94	377669	8.096	ppbv 89
7) Chloroethane	3.59	64	220991	7.958	ppbv 94
8) Dichlorotetrafluoroethane	3.21	85	1537241	7.865	ppbv 98
9) Propene	3.03	41	412438	8.308	ppbv 98
10) Heptane	8.22	43	1285516	10.245	ppbv 100
11) Trichlorofluoromethane	3.99	101	1878249	7.960	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.54	101	1275921	8.001	ppbv 100
13) Ethanol	3.64	45	144352	8.937	ppbv 95
14) Bromoethene	3.78	108	493544	8.305	ppbv 99
15) Acetone	3.89	43	1378665	8.388	ppbv 99
16) 1,3-Butadiene	3.35	39	511788	8.180	ppbv 100
17) tert-Butyl alcohol	4.34	59	1141190	8.881	ppbv 99
18) 1,1-Dichloroethene	4.34	96	542509	8.054	ppbv 99
19) Isopropyl Alcohol	4.01	45	873267	9.300	ppbv 99
20) Methylene Chloride	4.39	84	470856	7.346	ppbv 98
21) Allyl Chloride	4.46	41	774917	8.299	ppbv 99
22) trans-1,2-Dichloroethene	4.95	96	568495	8.007	ppbv 95
23) Vinyl Acetate	5.14	43	1726857	9.038	ppbv 99
24) 1,1-Dichloroethane	5.07	63	1193430	8.031	ppbv 100
25) Ethyl Acetate	5.75	43	2349399	9.385	ppbv 100
26) Hexane	5.76	57	1041952	9.142	ppbv 99
27) Carbon Disulfide	4.60	76	1367905	8.639	ppbv 100
28) Methyl tert-Butyl Ether	5.10	73	1545643	8.968	ppbv 99
29) Chloroform	5.83	83	1823159	9.340	ppbv 96
30) Cyclohexane	7.22	84	849548	10.550	ppbv 99
31) cis-1,2-Dichloroethene	5.62	61	1040640	10.412	ppbv 99
32) 1,1,1-Trichloroethane	6.60	97	1835400	9.747	ppbv 99
34) 2-Butanone	5.31	43	1332816	9.221	ppbv 100
35) Carbon Tetrachloride	7.11	117	1990961	10.058	ppbv 97
36) Benzene	6.98	78	2057959	10.515	ppbv 100
37) 1,2-Dichloroethane	6.39	62	1320396	9.122	ppbv 99
38) Trichloroethene	7.94	130	867402	11.383	ppbv 96
39) 1,2-Dichloropropane	7.71	63	754274	9.986	ppbv 95
40) 1,4-Dioxane	7.93	88	320240	10.395	ppbv 88
41) Tetrahydrofuran	6.13	42	768399	10.474	ppbv 99
42) Bromodichloromethane	7.89	83	1933214	9.995	ppbv 99
43) Methyl Methacrylate	8.11	69	842395	11.509	ppbv 100

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Quant Time: Jun 25 03:37:28 2019
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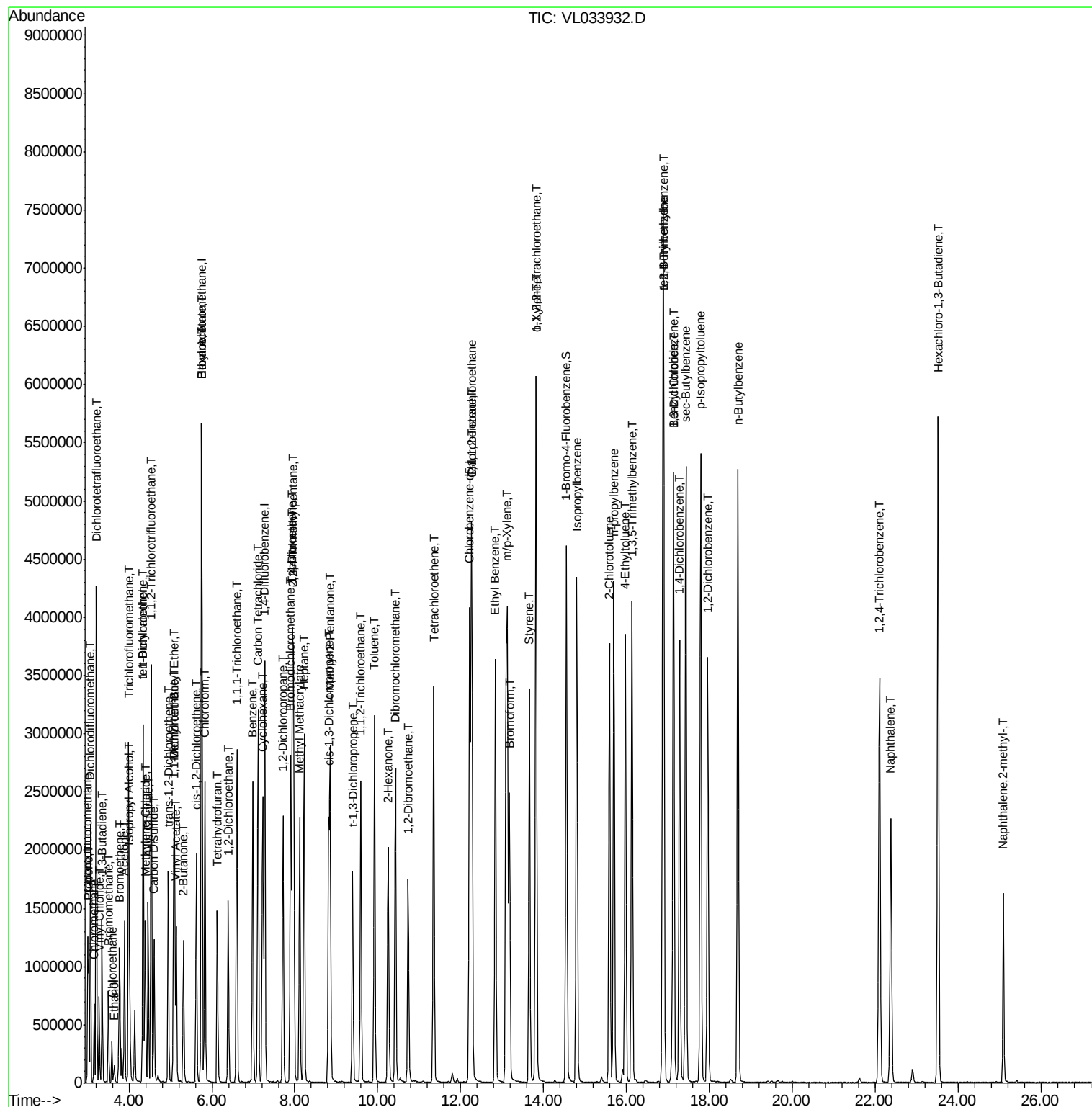
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.97	57	3518688	10.110	ppbv	100
45) t-1,3-Dichloropropene	9.39	75	1043235	10.862	ppbv	99
46) cis-1,3-Dichloropropene	8.81	75	1244917	11.314	ppbv	100
47) 1,1,2-Trichloroethane	9.59	97	896848	9.960	ppbv	97
48) Dibromochloromethane	10.43	129	1683203	10.401	ppbv	99
49) Bromoform	13.18	173	1430500	10.014	ppbv	99
50) 4-Methyl-2-Pentanone	8.85	43	2311291	10.724	ppbv	99
51) 2-Hexanone	10.25	43	1864733	11.079	ppbv #	99
52) Tetrachloroethene	11.35	164	821058	11.923	ppbv	96
53) Toluene	9.92	91	2465738	11.385	ppbv	99
54) 1,2-Dibromoethane	10.73	107	1419779	10.460	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.25	131	1115358	7.957	ppbv	99
57) Chlorobenzene	12.27	112	1835756	7.639	ppbv	100
58) Ethyl Benzene	12.84	91	3320161	9.178	ppbv	98
59) m/p-Xylene	13.12	91	2857575	8.686	ppbv #	33
60) o-Xylene	13.82	91	2827274	8.324	ppbv	100
61) Styrene	13.66	104	1988896	9.048	ppbv	100
62) Isopropylbenzene	14.80	105	3888200	8.493	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.81	83	1985119	7.764	ppbv	99
64) n-propylbenzene	15.70	120	1002766	8.554	ppbv	98
65) tert-Butylbenzene	16.88	119	3654908	8.629	ppbv	99
66) Benzyl Chloride	17.13	91	1579459	7.358	ppbv	99
67) sec-Butylbenzene	17.43	105	5110240	8.600	ppbv	100
69) p-Isopropyltoluene	17.79	119	4337164	8.772	ppbv	99
70) n-Butylbenzene	18.69	91	4480591	8.274	ppbv	100
71) 2-Chlorotoluene	15.59	91	2967911	8.800	ppbv	100
72) 4-Ethyltoluene	15.97	105	3369677	8.718	ppbv	99
73) 1,3,5-Trimethylbenzene	16.13	105	3232506	8.490	ppbv	100
74) 1,2,4-Trimethylbenzene	16.90	105	3417370	7.788	ppbv	97
75) 1,3-Dichlorobenzene	17.14	146	2008686	7.309	ppbv	100
76) 1,4-Dichlorobenzene	17.28	146	1964485	7.786	ppbv	100
77) 1,2-Dichlorobenzene	17.96	146	1940935	7.654	ppbv	100
78) Hexachloro-1,3-Butadiene	23.51	225	1484996	7.497	ppbv	99
79) Naphthalene	22.38	128	2922466	8.332	ppbv	99
80) Naphthalene, 2-methyl-	25.09	142	867060	6.196	ppbv	95
81) 1,2,4-Trichlorobenzene	22.10	180	1633990	7.379	ppbv	99

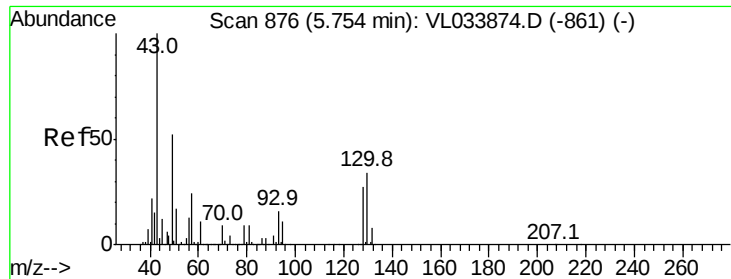
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jun 07 08:53:27 2019
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.74 min Scan# 873

Delta R.T. -0.01 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Instrument :

MSVOA_L

ClientSampleId :

VL0624ABS01

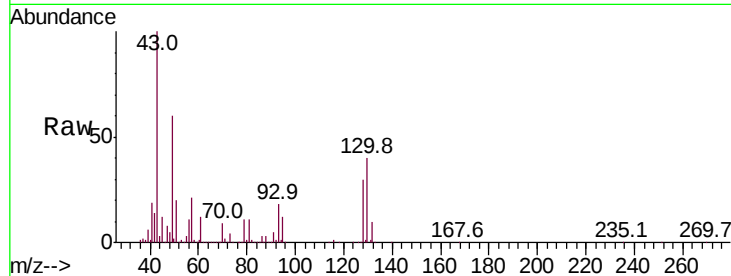
Tot Ion: 49 Resp: 1127021

Ion Ratio Lower Upper

49 100

128 51.0 25.5 76.5

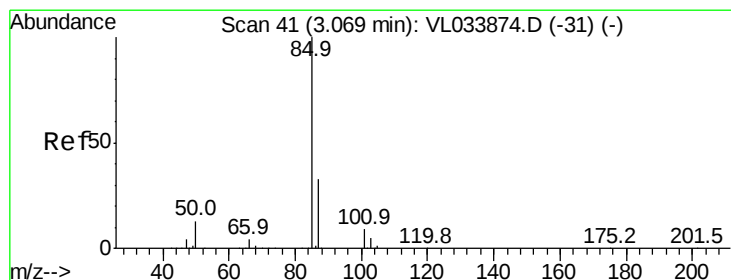
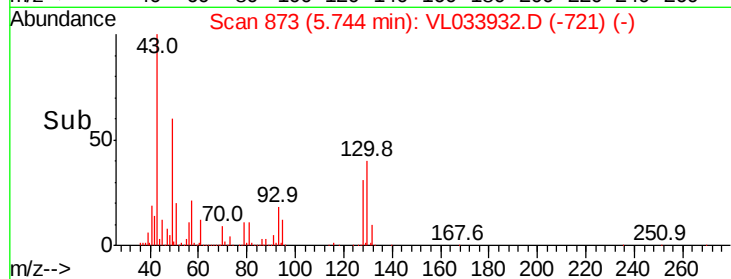
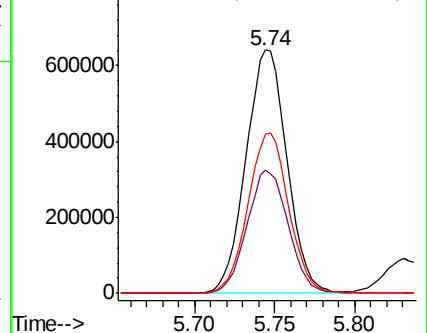
130 65.8 32.5 97.4



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: 8.623 ppbv

RT: 3.07 min Scan# 40

Delta R.T. -0.00 min

Lab File: VL033932.D

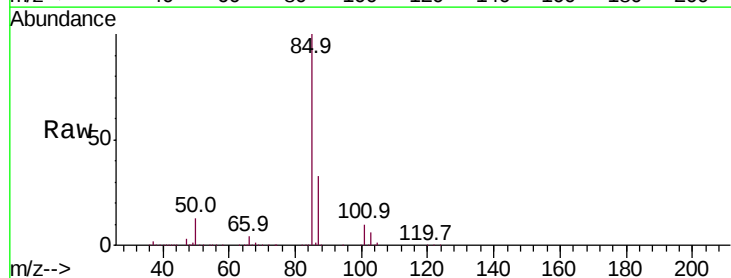
Acq: 24 Jun 2019 11:41

Tgt Ion: 85 Resp: 1576960

Ion Ratio Lower Upper

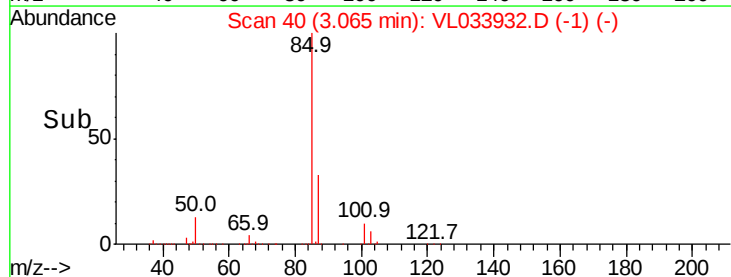
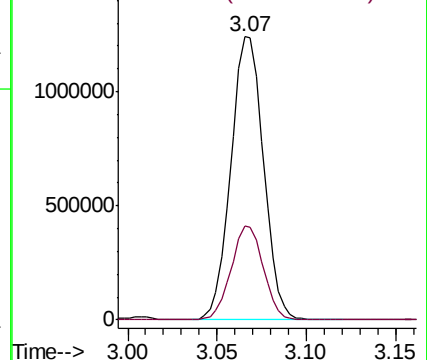
85 100

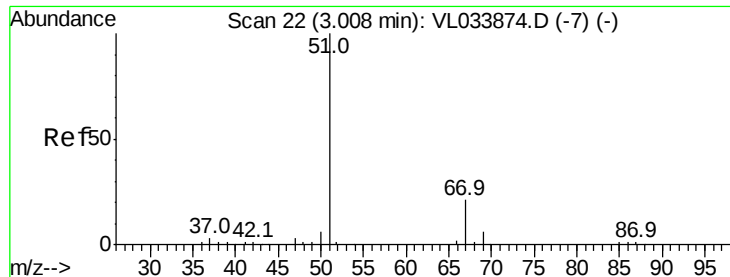
87 33.0 26.6 40.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.219 ppbv

RT: 3.00 min Scan# 21

Delta R.T. -0.00 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Instrument :

MSVOA_L

ClientSampleId :

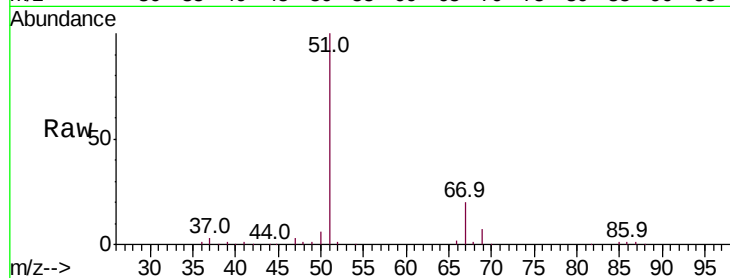
VL0624ABS01

Tot Ion: 51 Resp: 1090513

Ion Ratio Lower Upper

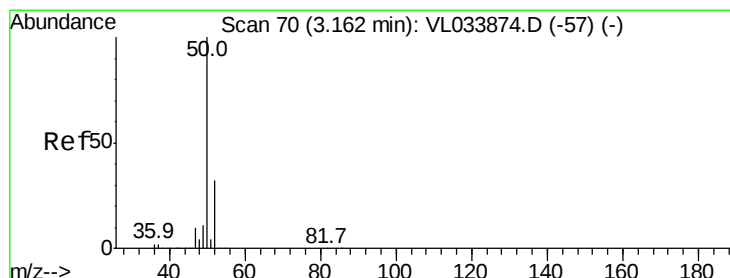
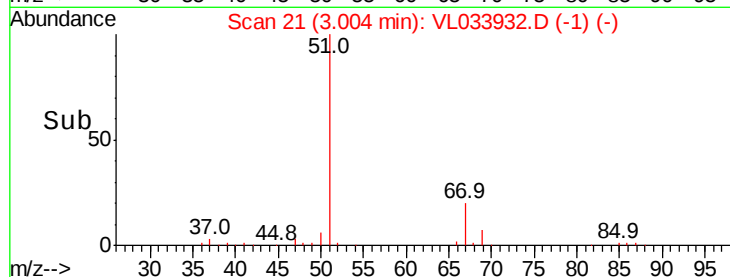
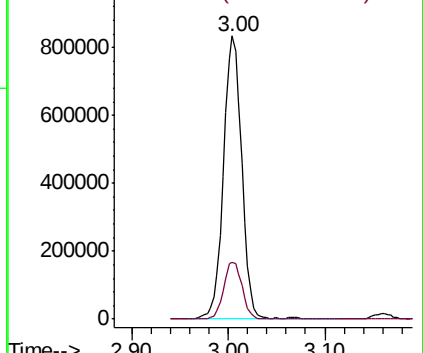
51 100

67 20.3 16.4 24.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 7.421 ppbv

RT: 3.16 min Scan# 70

Delta R.T. -0.00 min

Lab File: VL033932.D

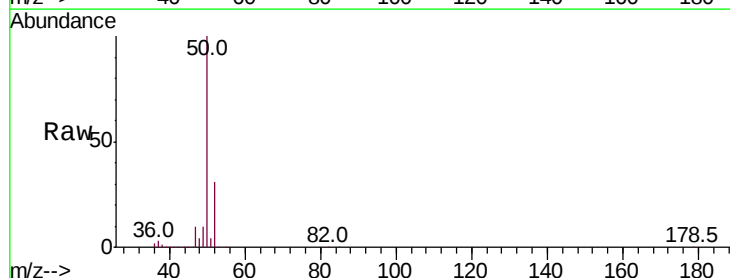
Acq: 24 Jun 2019 11:41

Tgt Ion: 50 Resp: 561618

Ion Ratio Lower Upper

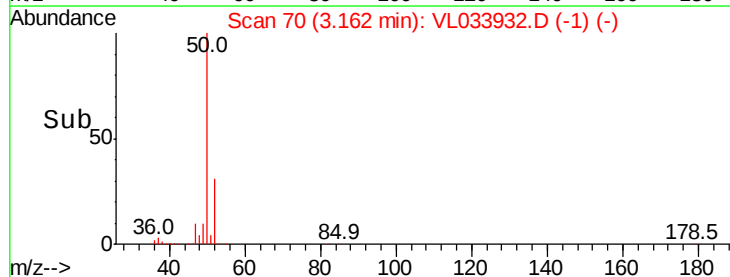
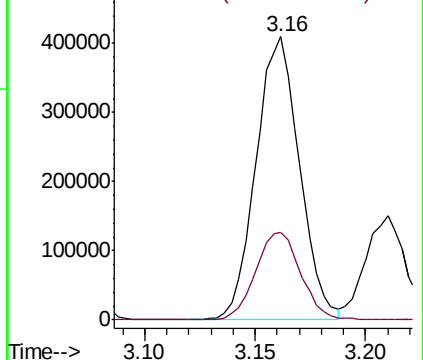
50 100

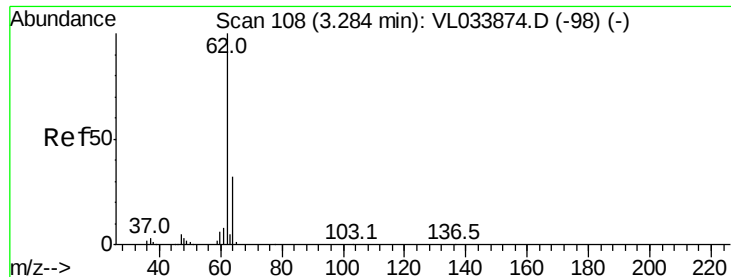
52 30.8 25.4 38.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.237 ppbv

RT: 3.28 min Scan# 107

Delta R.T. -0.00 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Instrument :

MSVOA_L

ClientSampleId :

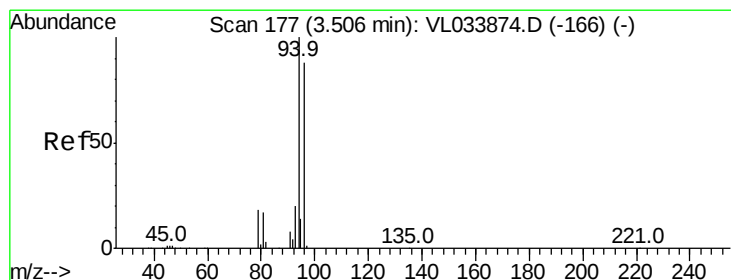
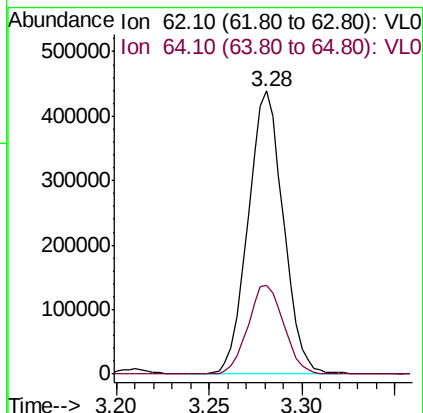
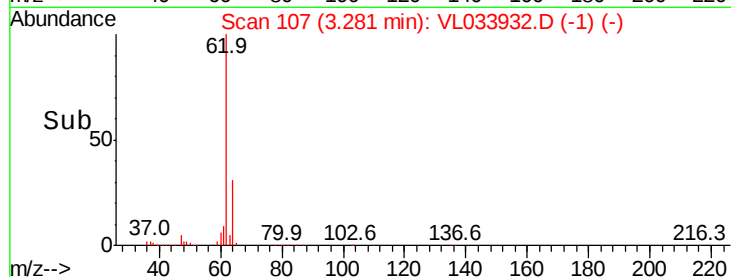
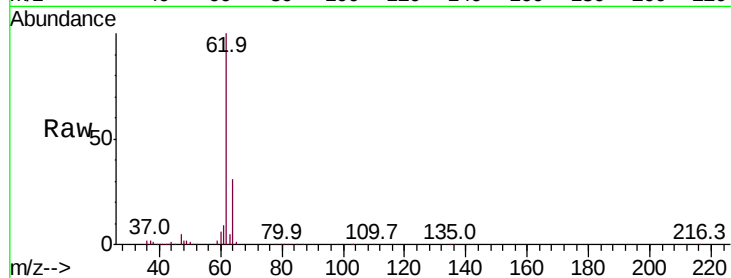
VL0624ABS01

Tot Ion: 62 Resp: 578359

Ion Ratio Lower Upper

62 100

64 31.5 25.2 37.8



#6

Bromomethane

Concen: 8.096 ppbv

RT: 3.50 min Scan# 176

Delta R.T. -0.00 min

Lab File: VL033932.D

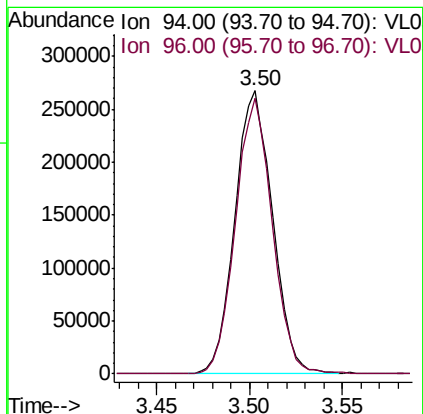
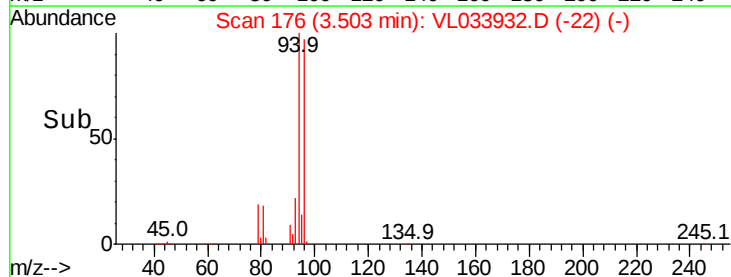
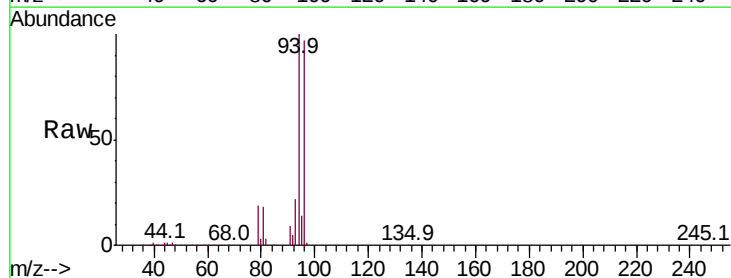
Acq: 24 Jun 2019 11:41

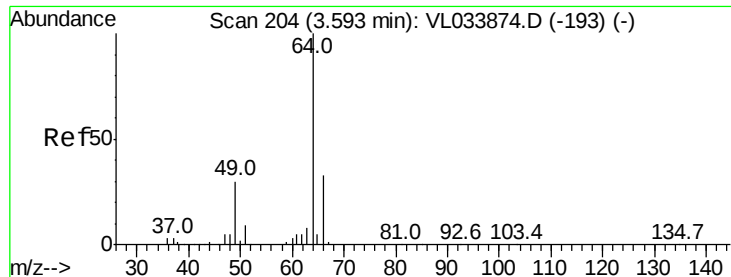
Tgt Ion: 94 Resp: 377669

Ion Ratio Lower Upper

94 100

96 97.5 70.2 105.2





#7

Chloroethane

Concen: 7.958 ppbv

RT: 3.59 min Scan# 203

Delta R.T. -0.00 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Instrument :

MSVOA_L

ClientSampleId :

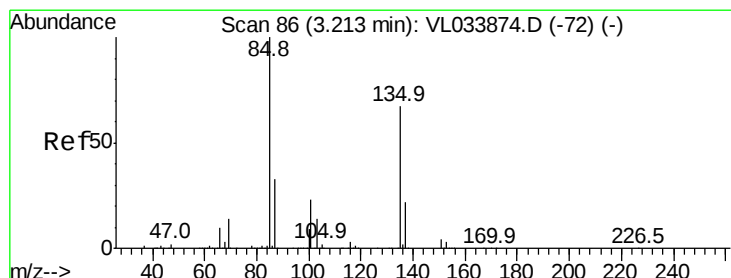
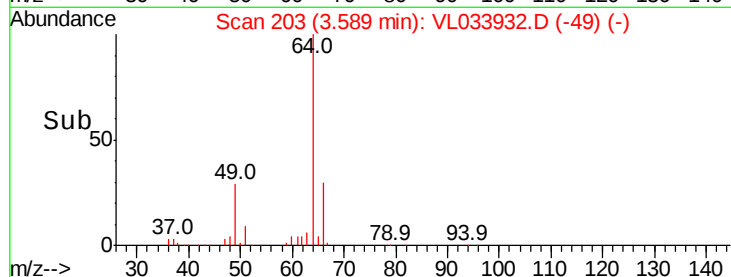
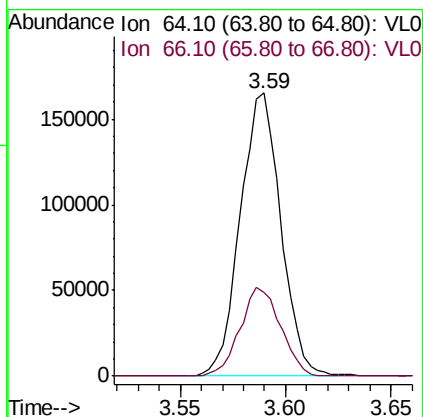
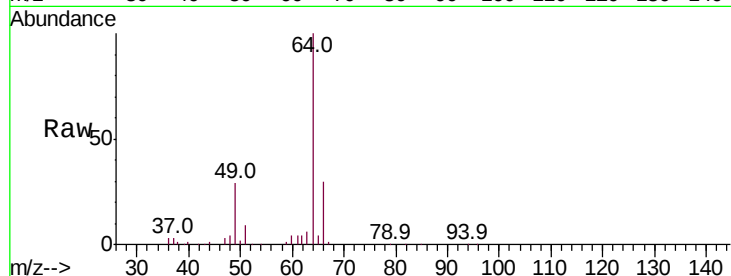
VL0624ABS01

Tot Ion: 64 Resp: 220991

Ion Ratio Lower Upper

64 100

66 29.8 26.7 40.1



#8

Dichlorotetrafluoroethane

Concen: 7.865 ppbv

RT: 3.21 min Scan# 85

Delta R.T. -0.00 min

Lab File: VL033932.D

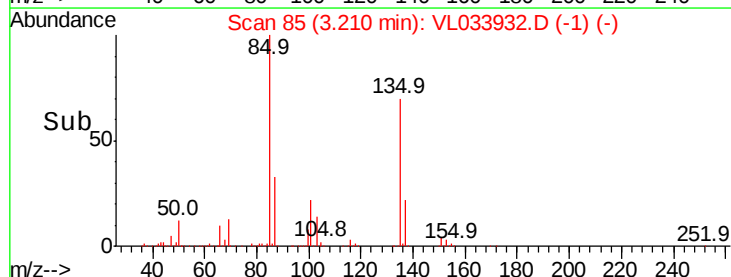
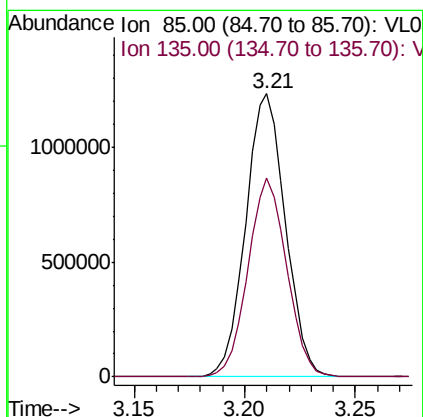
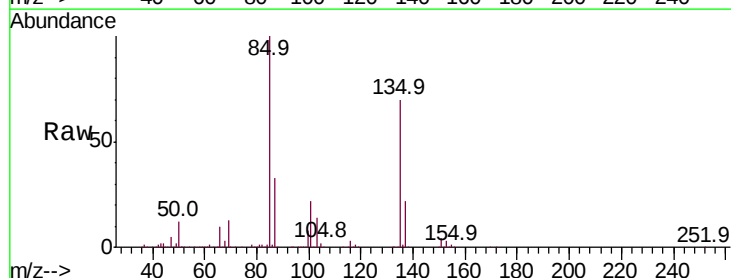
Acq: 24 Jun 2019 11:41

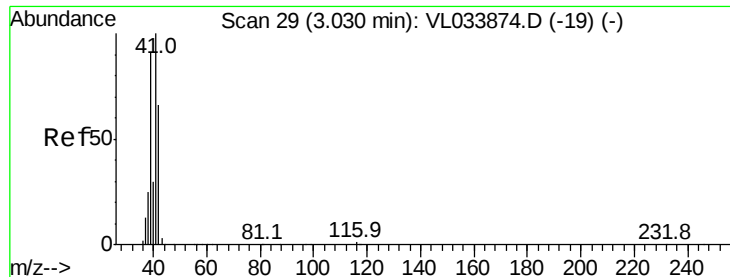
Tgt Ion: 85 Resp: 1537241

Ion Ratio Lower Upper

85 100

135 69.0 53.7 80.5





#9

Propene

Concen: 8.308 ppbv

RT: 3.03 min Scan# 28

Delta R.T. -0.00 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

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ClientSampleId :

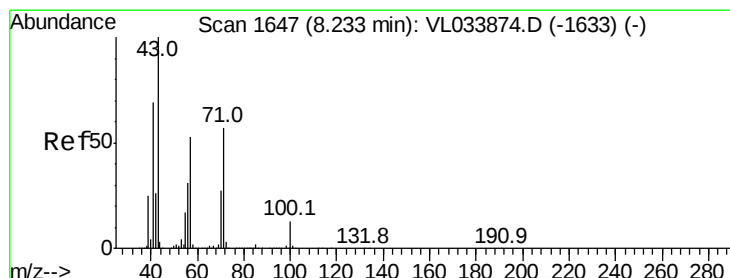
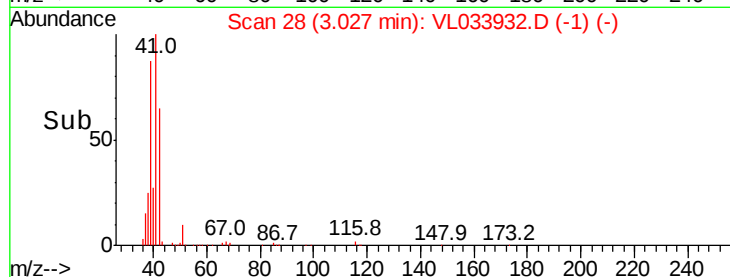
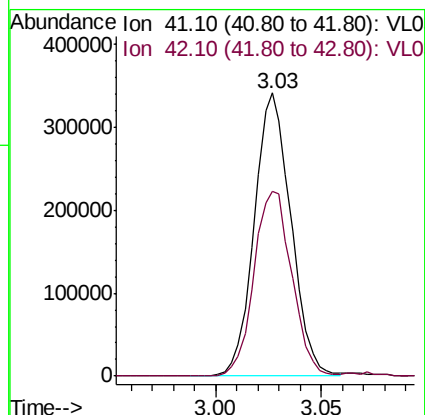
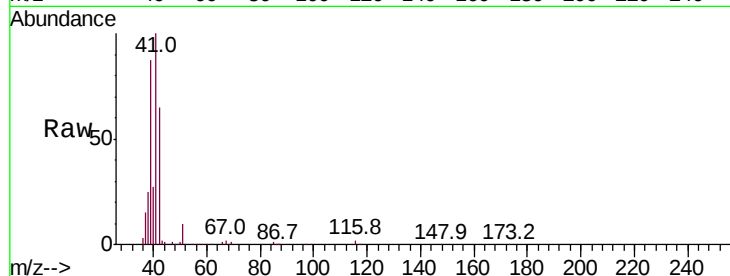
VL0624ABS01

Tot Ion: 41 Resp: 412438

Ion Ratio Lower Upper

41 100

42 68.6 56.3 84.5



#10

Heptane

Concen: 10.245 ppbv

RT: 8.22 min Scan# 1644

Delta R.T. -0.01 min

Lab File: VL033932.D

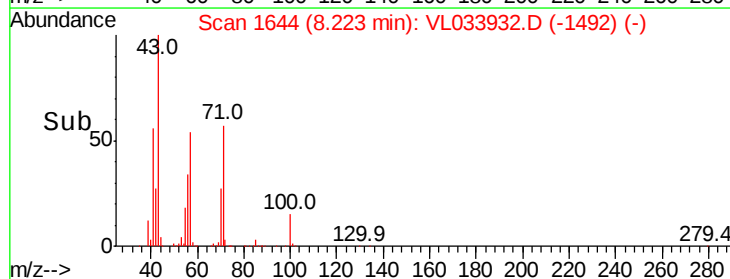
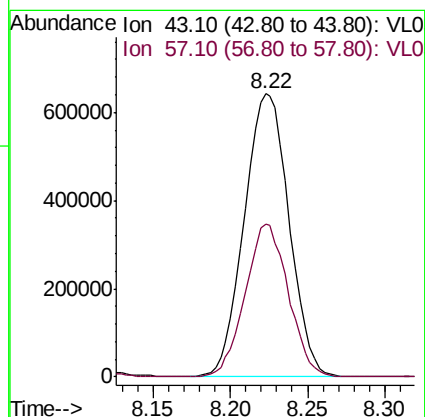
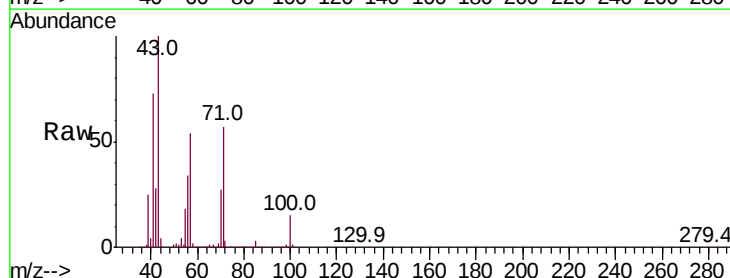
Acq: 24 Jun 2019 11:41

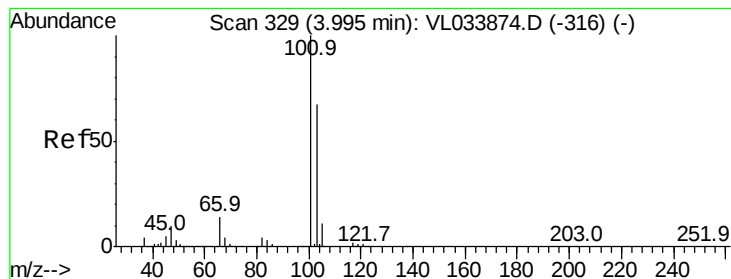
Tgt Ion: 43 Resp: 1285516

Ion Ratio Lower Upper

43 100

57 51.8 41.7 62.5





#11

Trichlorofluoromethane

Concen: 7.960 ppbv

RT: 3.99 min Scan# 328

Delta R.T. -0.00 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Instrument :

MSVOA_L

ClientSampleId :

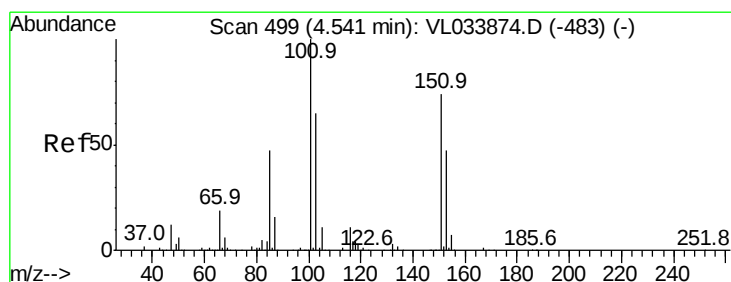
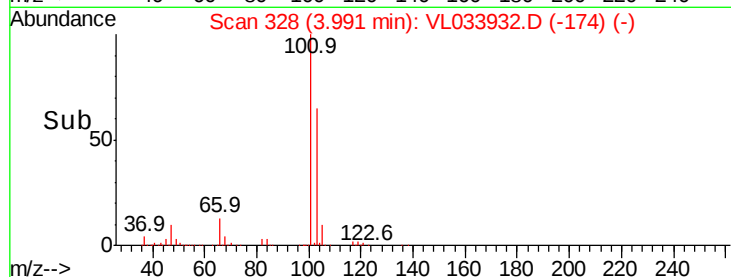
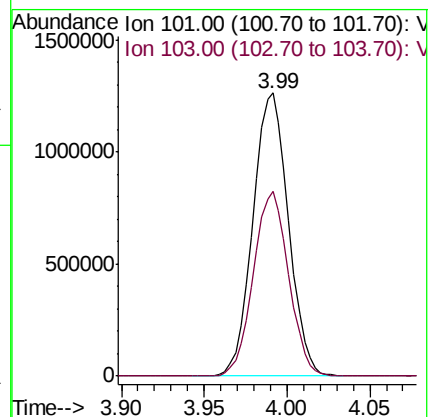
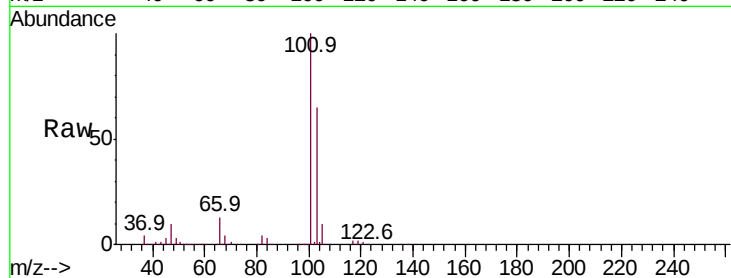
VL0624ABS01

Tot Ion:101 Resp: 1878249

Ion Ratio Lower Upper

101 100

103 65.3 53.6 80.4



#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.001 ppbv

RT: 4.54 min Scan# 498

Delta R.T. -0.00 min

Lab File: VL033932.D

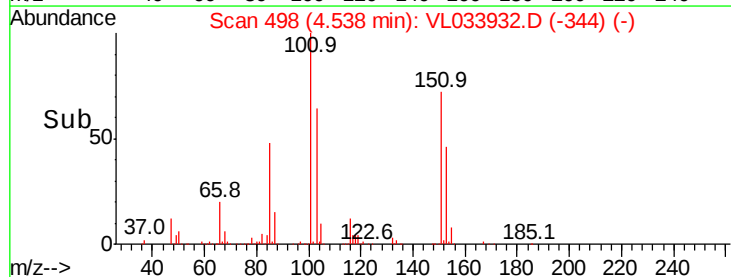
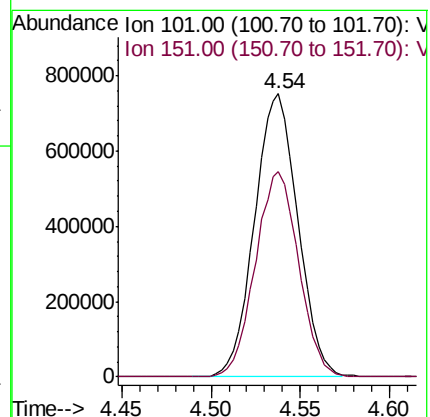
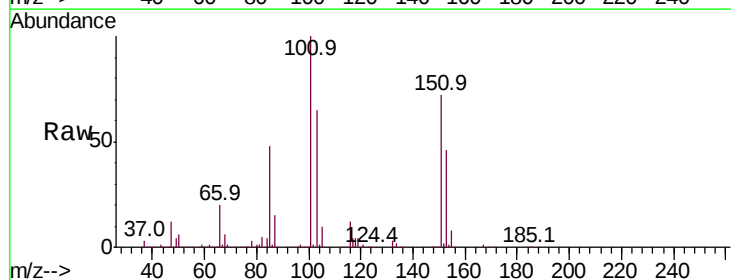
Acq: 24 Jun 2019 11:41

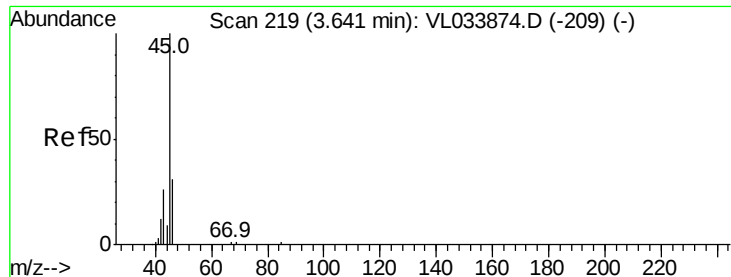
Tgt Ion:101 Resp: 1275921

Ion Ratio Lower Upper

101 100

151 72.8 58.6 87.8

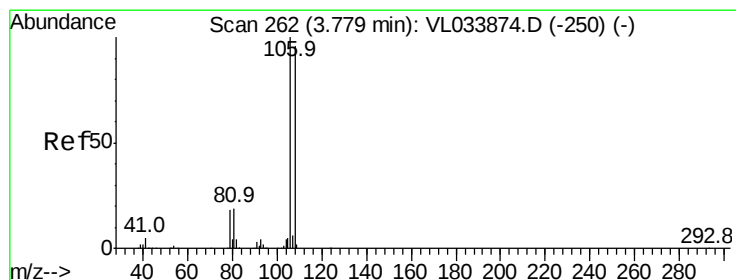
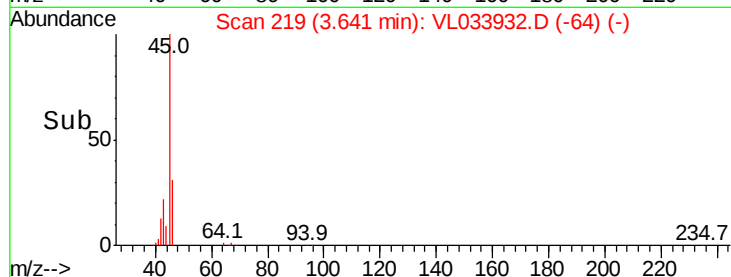
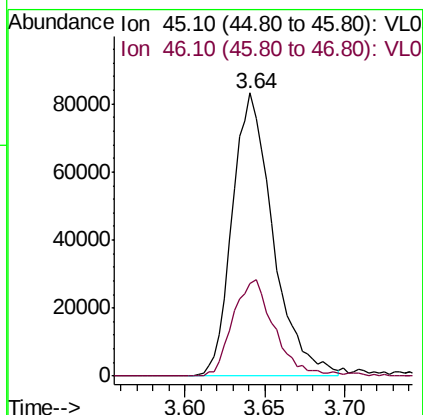
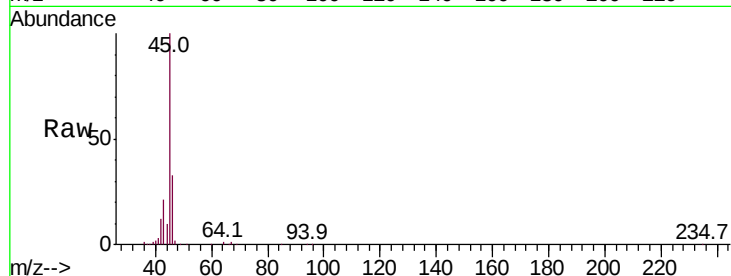




#13
Ethanol
Concen: 8.937 ppbv
RT: 3.64 min Scan# 219
Delta R.T. -0.00 min
Lab File: VL033932.D
Acq: 24 Jun 2019 11:41

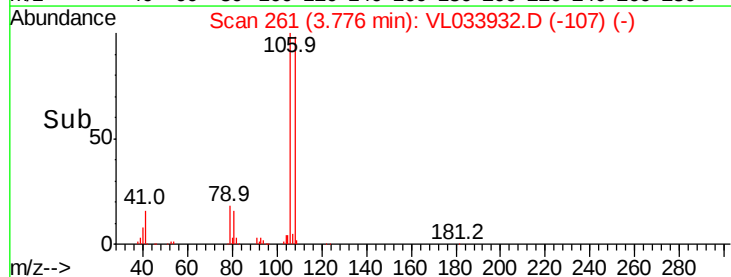
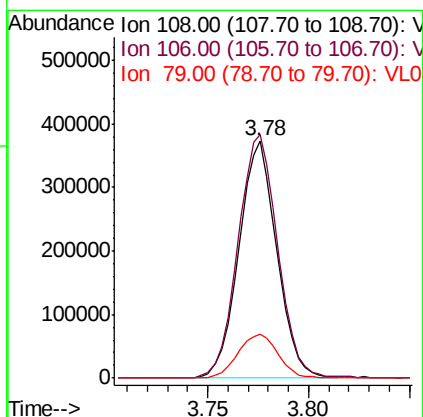
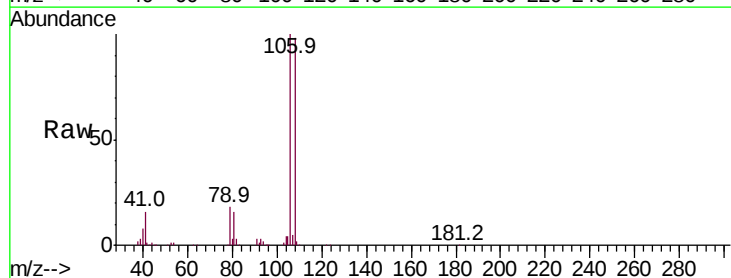
Instrument :
MSVOA_L
ClientSampleId :
VL0624ABS01

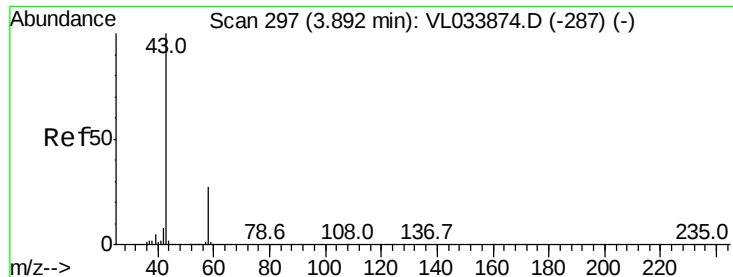
Tot Ion: 45 Resp: 144352
Ion Ratio Lower Upper
45 100
46 35.2 15.3 61.1



#14
Bromoethene
Concen: 8.305 ppbv
RT: 3.78 min Scan# 261
Delta R.T. -0.00 min
Lab File: VL033932.D
Acq: 24 Jun 2019 11:41

Tgt Ion: 108 Resp: 493544
Ion Ratio Lower Upper
108 100
106 107.6 84.9 127.3
79 19.6 15.4 23.0





#15

Acetone

Concen: 8.388 ppbv

RT: 3.89 min Scan# 296

Delta R.T. -0.00 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Instrument :

MSVOA_L

ClientSampleId :

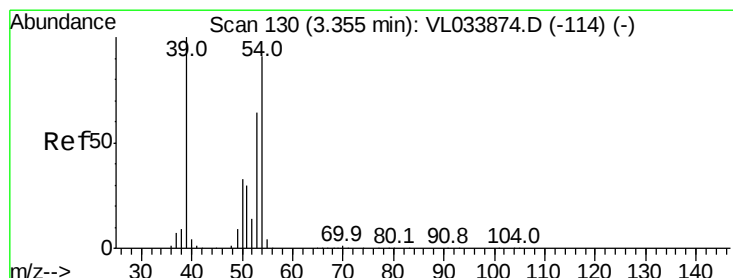
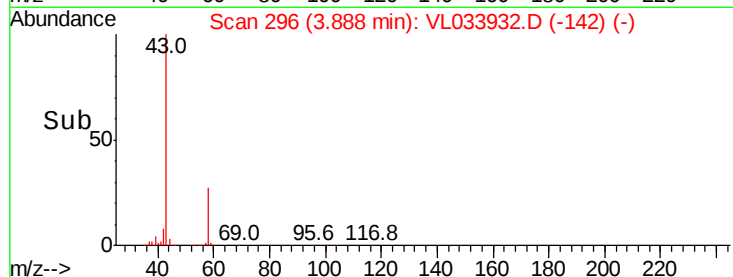
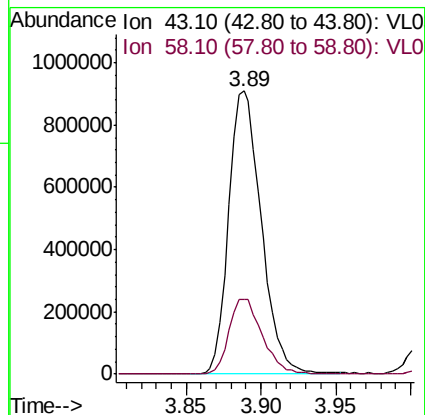
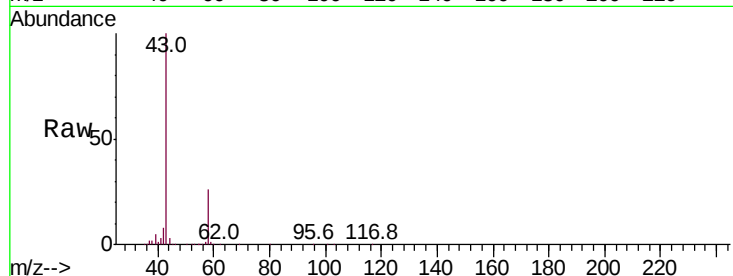
VL0624ABS01

Tot Ion: 43 Resp: 1378665

Ion Ratio Lower Upper

43 100

58 27.3 21.3 31.9



#16

1,3-Butadiene

Concen: 8.180 ppbv

RT: 3.35 min Scan# 130

Delta R.T. -0.00 min

Lab File: VL033932.D

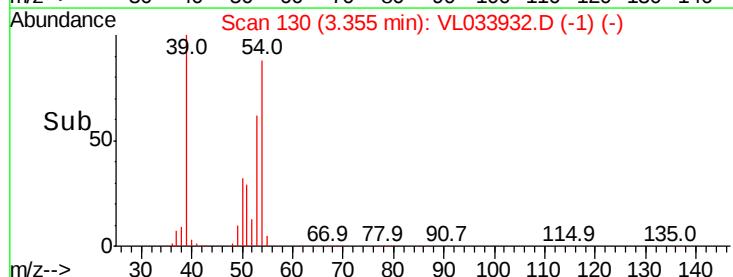
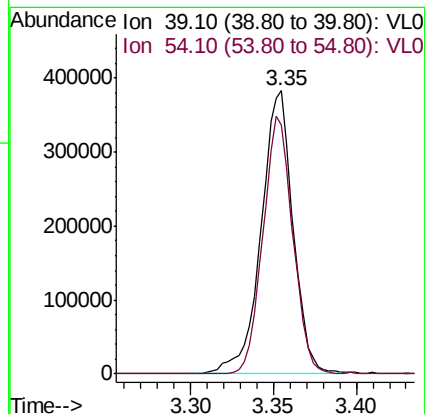
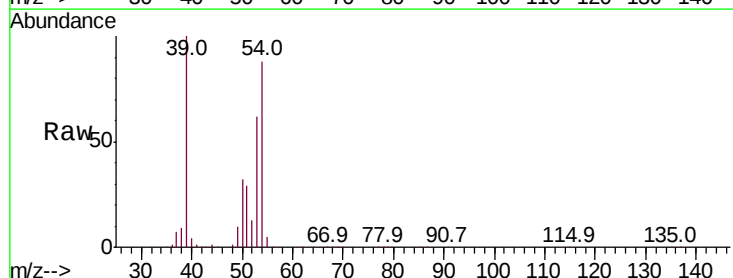
Acq: 24 Jun 2019 11:41

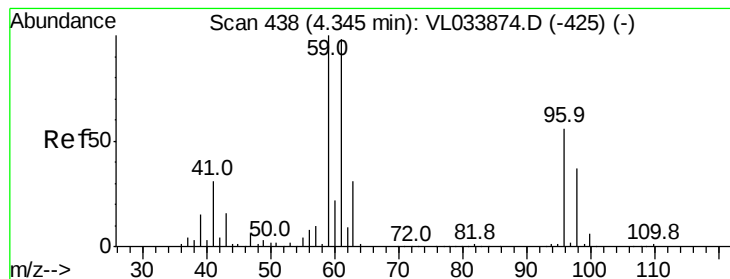
Tgt Ion: 39 Resp: 511788

Ion Ratio Lower Upper

39 100

54 85.4 68.6 103.0



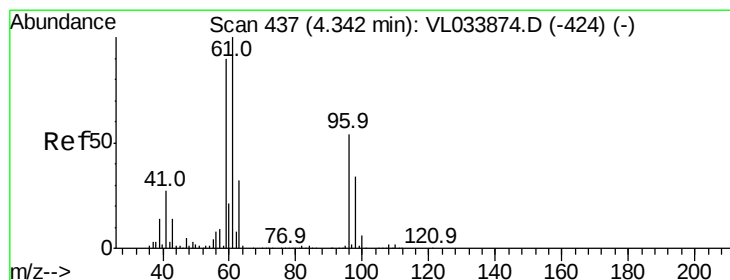
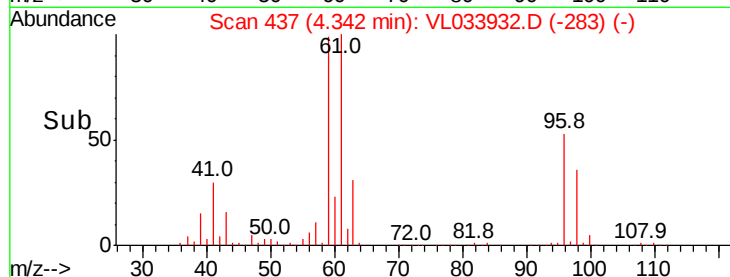
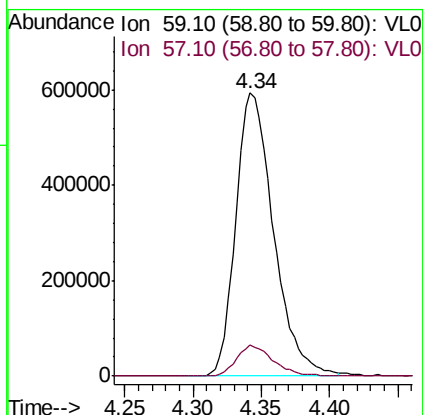
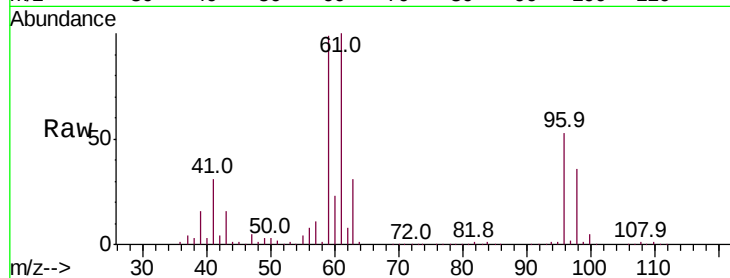


#17

tert-Butyl alcohol
Concen: 8.881 ppbv
RT: 4.34 min Scan# 437
Delta R.T. -0.00 min
Lab File: VL033932.D
Acq: 24 Jun 2019 11:41

Instrument :
MSVOA_L
ClientSampleId :
VL0624ABS01

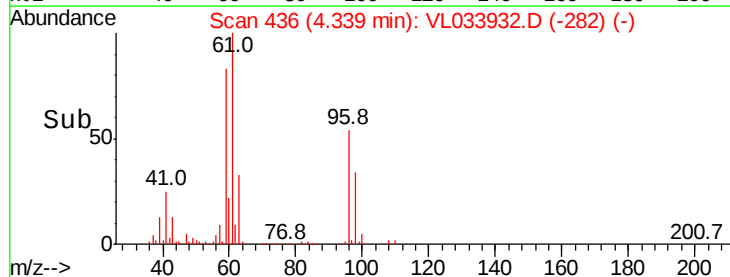
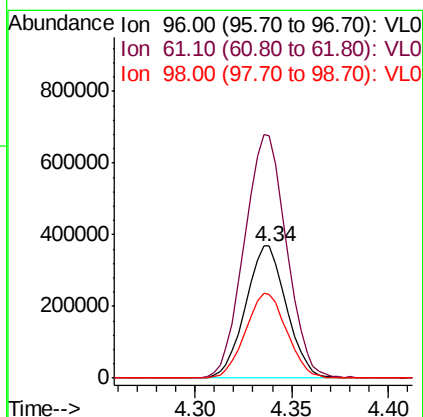
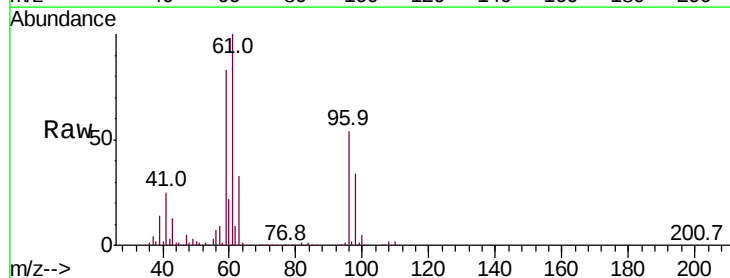
Tot Ion: 59 Resp: 1141190
Ion Ratio Lower Upper
59 100
57 10.8 8.4 12.6

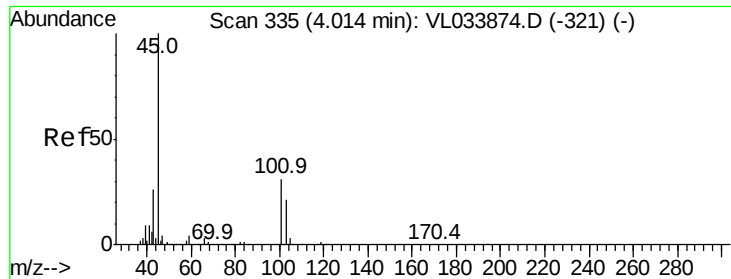


#18

1,1-Dichloroethene
Concen: 8.054 ppbv
RT: 4.34 min Scan# 436
Delta R.T. -0.00 min
Lab File: VL033932.D
Acq: 24 Jun 2019 11:41

Tgt Ion: 96 Resp: 542509
Ion Ratio Lower Upper
96 100
61 183.6 147.0 220.6
98 63.3 49.4 74.0





#19

Isopropyl Alcohol

Concen: 9.300 ppbv

RT: 4.01 min Scan# 335

Delta R.T. -0.00 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Instrument :

MSVOA_L

ClientSampleId :

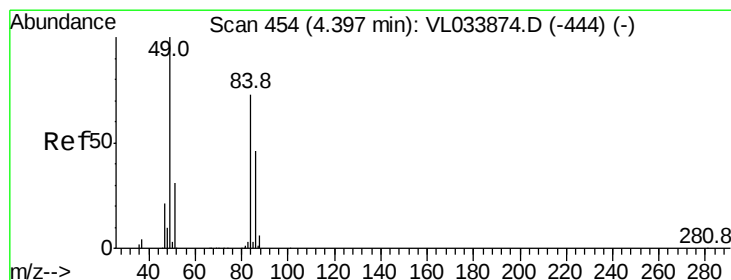
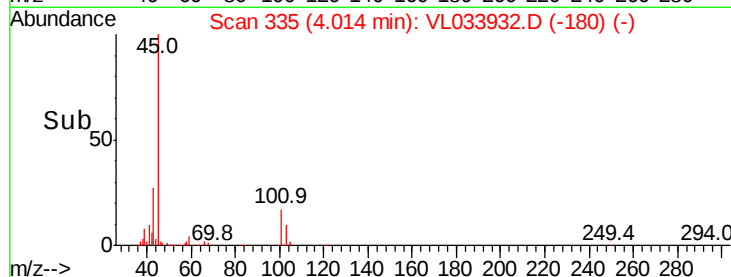
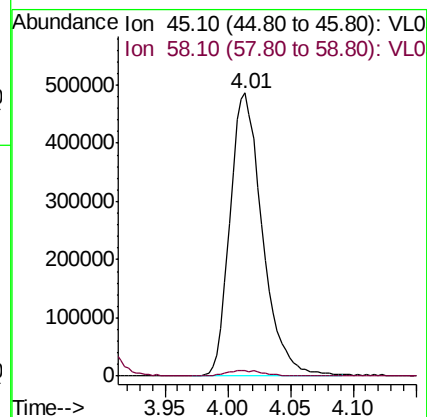
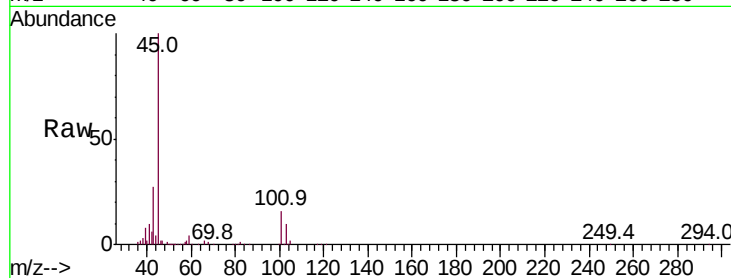
VL0624ABS01

Tot Ion: 45 Resp: 873267

Ion Ratio Lower Upper

45 100

58 2.4 1.8 2.6



#20

Methylene Chloride

Concen: 7.346 ppbv

RT: 4.39 min Scan# 453

Delta R.T. -0.00 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Tgt Ion: 84 Resp: 470856

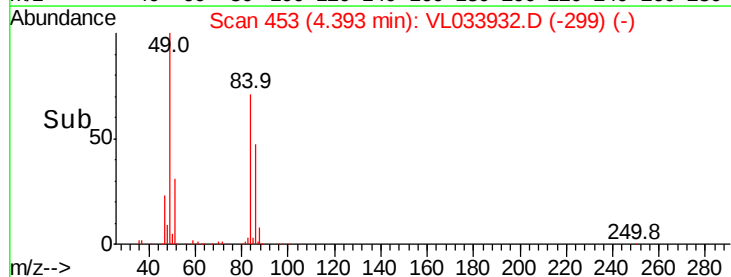
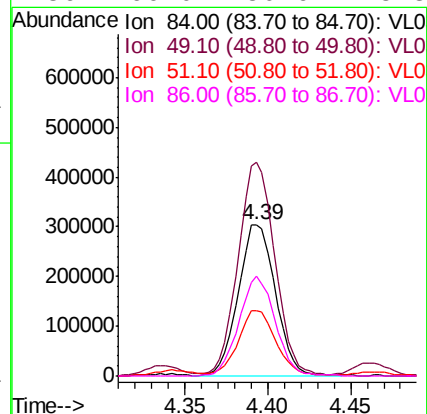
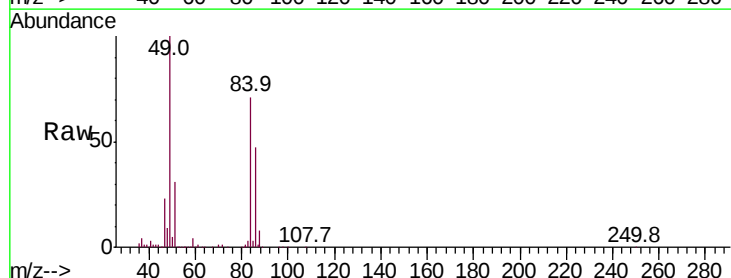
Ion Ratio Lower Upper

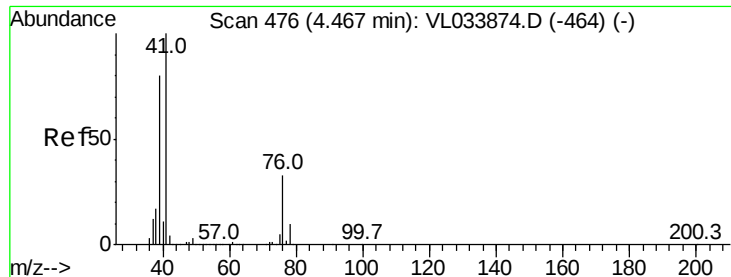
84 100

49 140.1 110.0 165.0

51 42.5 34.6 51.8

86 66.0 50.6 75.8

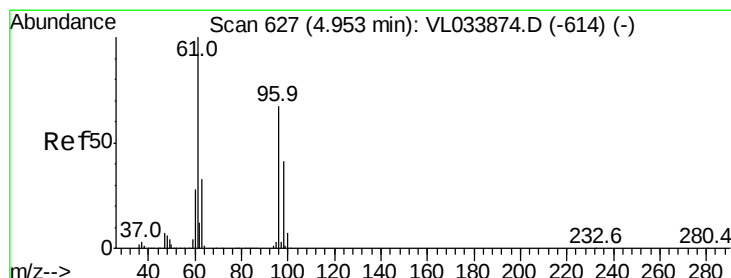
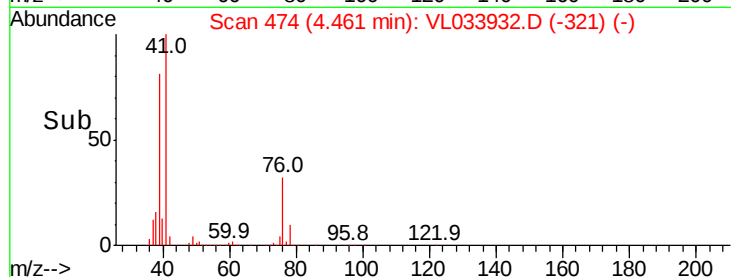
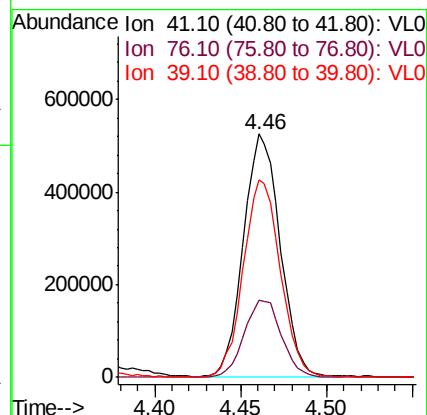
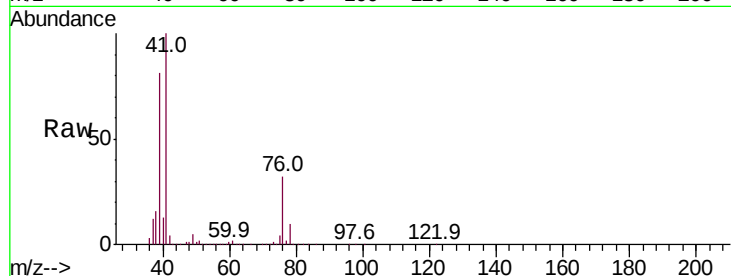




#21
Allvl Chloride
Concen: 8.299 ppbv
RT: 4.46 min Scan# 474
Delta R.T. -0.01 min
Lab File: VL033932.D
Acq: 24 Jun 2019 11:41

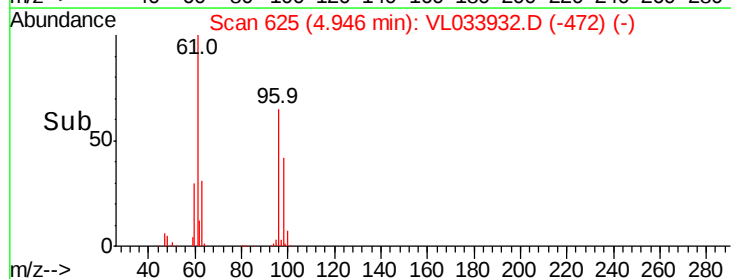
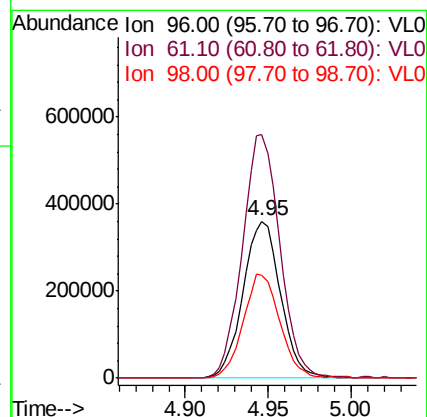
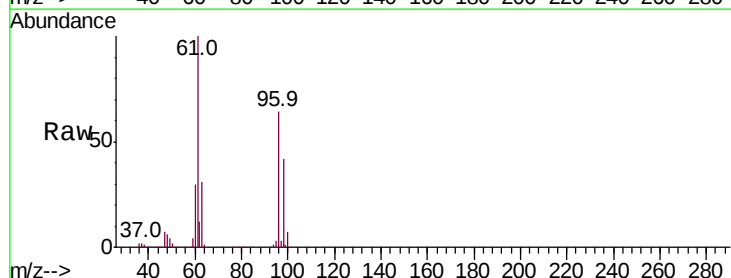
Instrument :
MSVOA_L
ClientSampleId :
VL0624ABS01

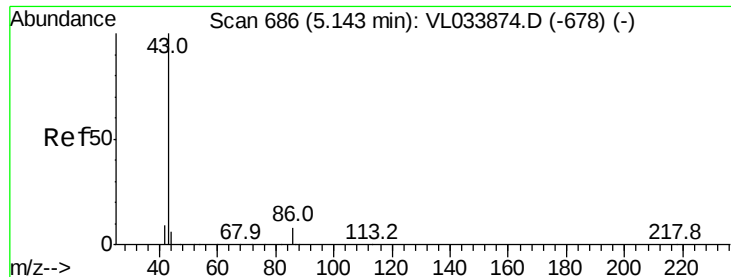
Tot Ion	Ratio	Lower	Upper
41	100		
76	32.5	26.6	39.8
39	82.6	65.2	97.8



#22
trans-1,2-Dichloroethene
Concen: 8.007 ppbv
RT: 4.95 min Scan# 625
Delta R.T. -0.01 min
Lab File: VL033932.D
Acq: 24 Jun 2019 11:41

Tgt Ion	Ratio	Lower	Upper
96	100		
61	155.1	119.0	178.6
98	65.1	48.3	72.5





#23

Vinyl Acetate

Concen: 9.038 ppbv

RT: 5.14 min Scan# 685

Delta R.T. -0.00 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Instrument :

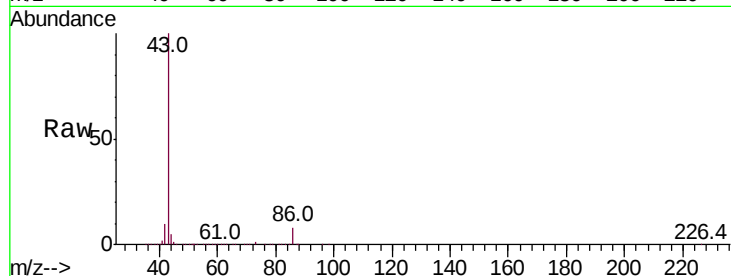
MSVOA_L

ClientSampleId :

VL0624ABS01

Tot Ion: 43 Resp: 1726857

Ion	Ratio	Lower	Upper
43	100		
86	7.7	5.8	8.8
42	10.3	7.8	11.8
44	5.1	4.2	6.4



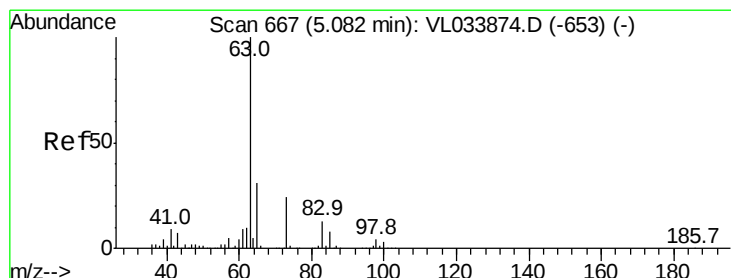
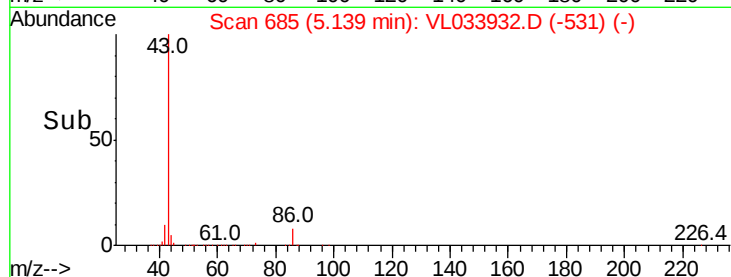
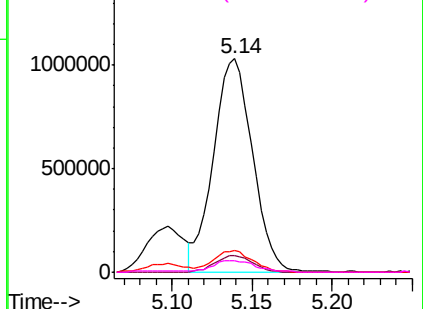
Abundance

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: 8.031 ppbv

RT: 5.07 min Scan# 665

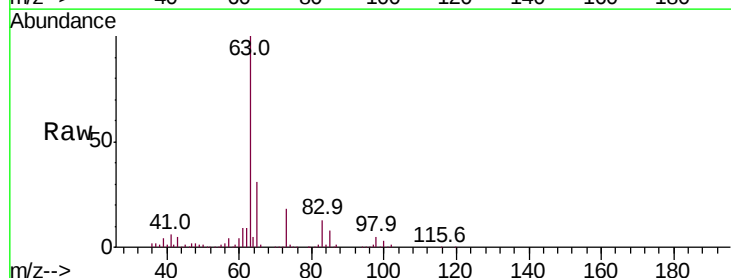
Delta R.T. -0.01 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Tgt Ion: 63 Resp: 1193430

Ion	Ratio	Lower	Upper
63	100		
98	4.5	2.2	6.6
100	2.6	1.3	3.8

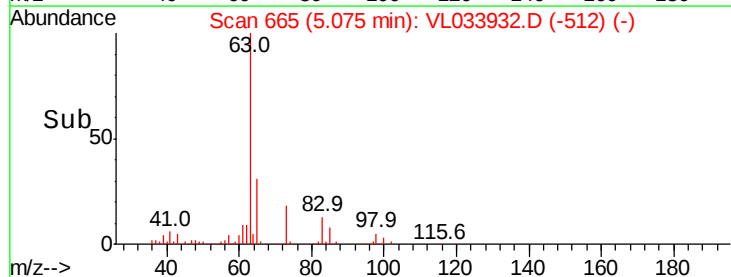
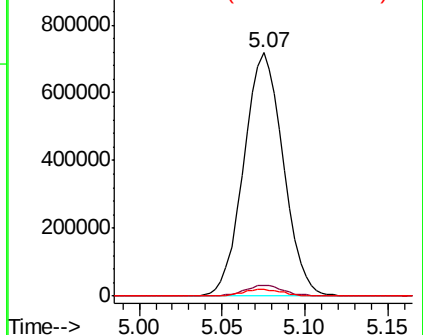


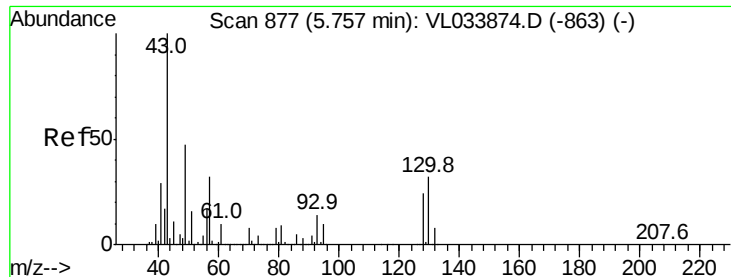
Abundance

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



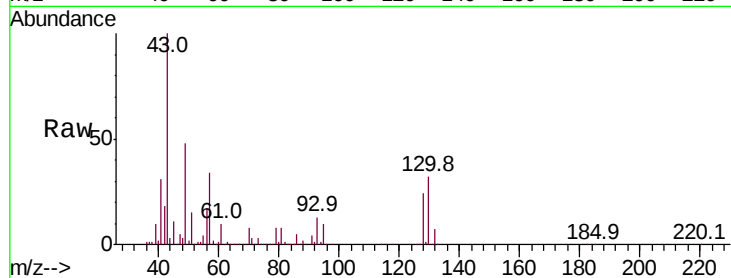


#25
Ethyl Acetate
Concen: 9.385 ppbv
RT: 5.75 min Scan# 875
Delta R.T. -0.01 min
Lab File: VL033932.D
Acq: 24 Jun 2019 11:41

Instrument :
MSVOA_L
ClientSampleId :
VL0624ABS01

Tot Ion: 43 Resp: 2349399

Ion	Ratio	Lower	Upper
43	100		
45	10.1	7.9	11.9
61	9.5	7.8	11.6
70	7.4	5.8	8.6



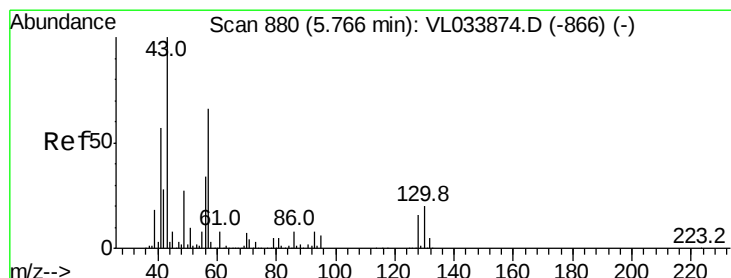
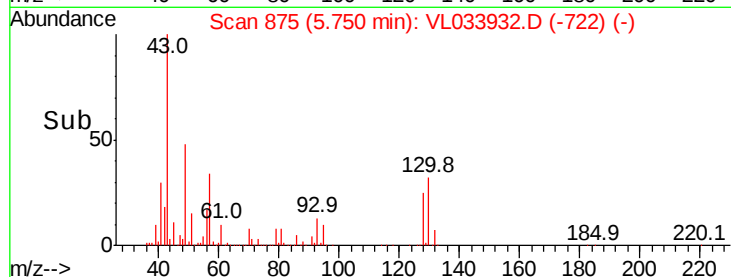
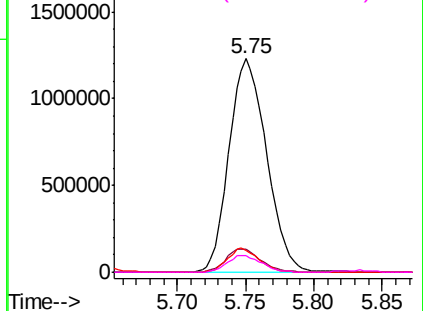
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

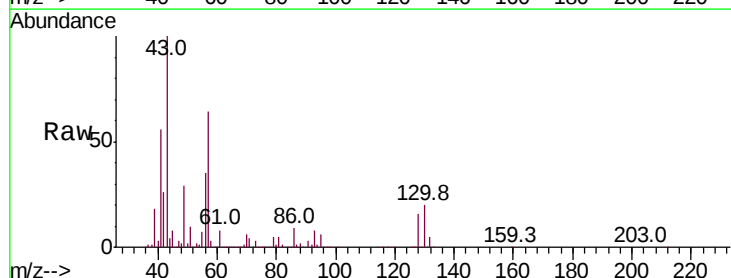
Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 9.142 ppbv
RT: 5.76 min Scan# 878
Delta R.T. -0.01 min
Lab File: VL033932.D
Acq: 24 Jun 2019 11:41

Tgt Ion: 57 Resp: 1041952

Ion	Ratio	Lower	Upper
57	100		
41	89.6	71.4	107.2
43	226.3	183.7	275.5
56	53.4	42.7	64.1



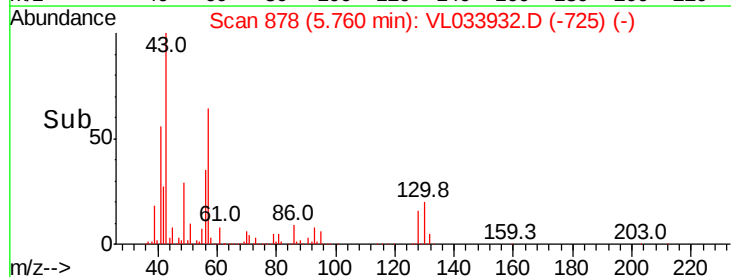
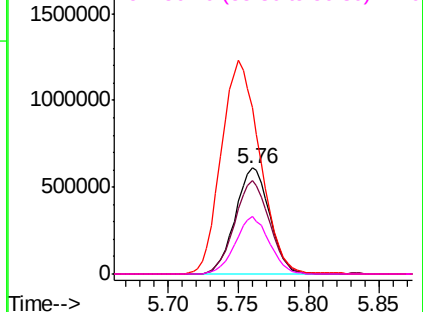
Abundance

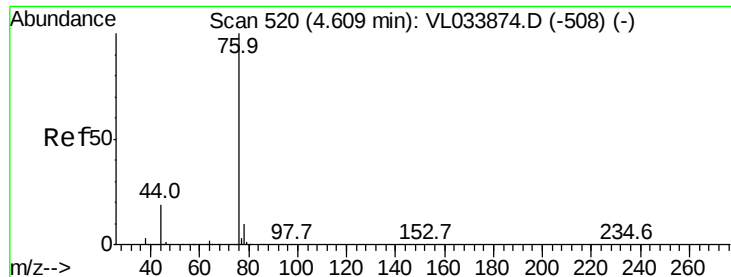
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 8.639 ppbv

RT: 4.60 min Scan# 518

Delta R.T. -0.01 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Instrument :

MSVOA_L

ClientSampleId :

VL0624ABS01

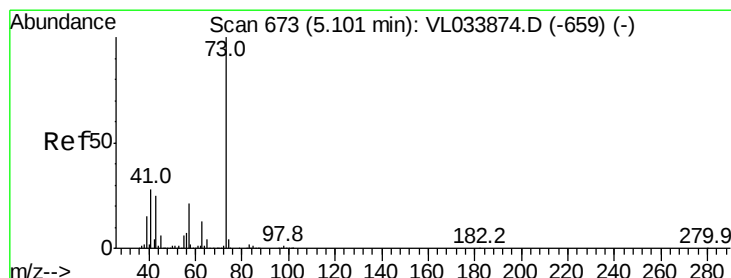
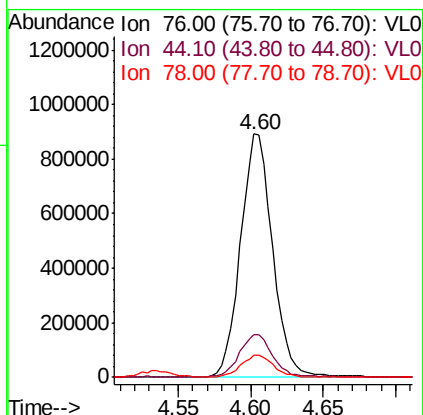
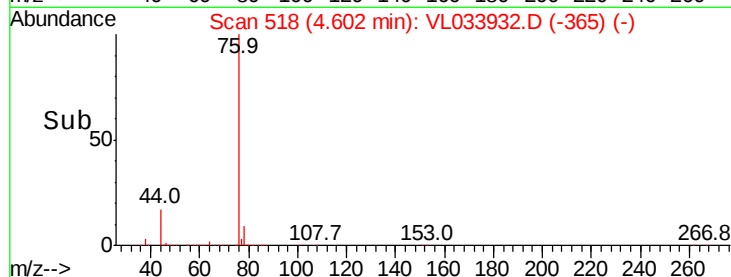
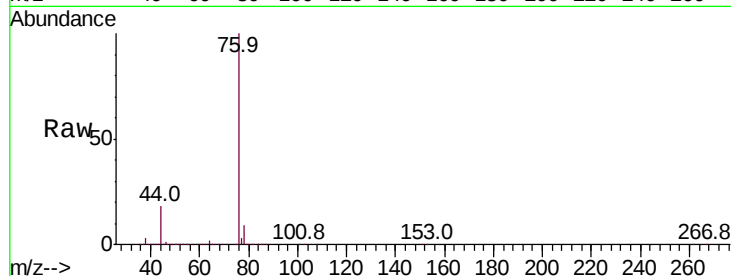
Tot Ion: 76 Resp: 1367905

Ion	Ratio	Lower	Upper
76	100		
44	17.9	14.4	21.6
78	9.3	7.5	11.3

76 100

44 17.9 14.4 21.6

78 9.3 7.5 11.3



#28

Methyl tert-Butyl Ether

Concen: 8.968 ppbv

RT: 5.10 min Scan# 672

Delta R.T. -0.00 min

Lab File: VL033932.D

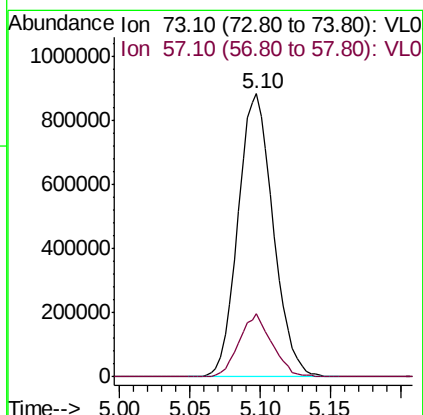
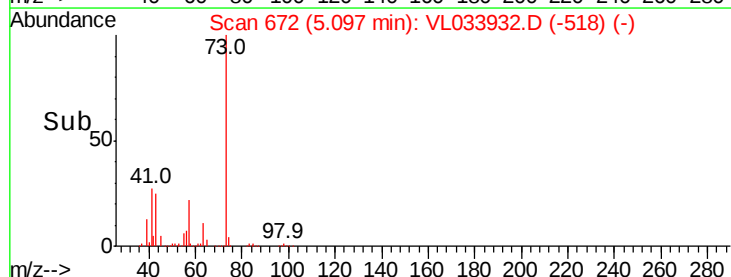
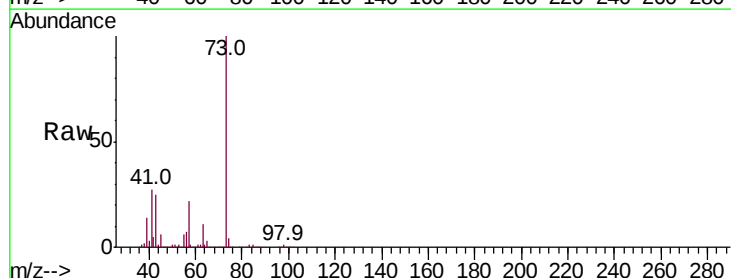
Acq: 24 Jun 2019 11:41

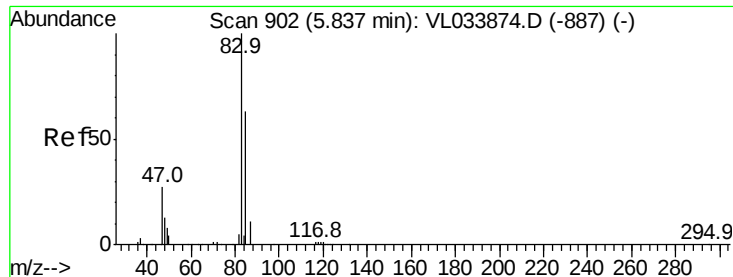
Tgt Ion: 73 Resp: 1545643

Ion	Ratio	Lower	Upper
73	100		
57	21.1	17.2	25.8

73 100

57 21.1 17.2 25.8

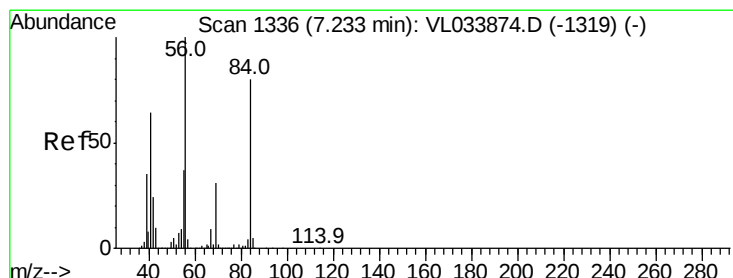
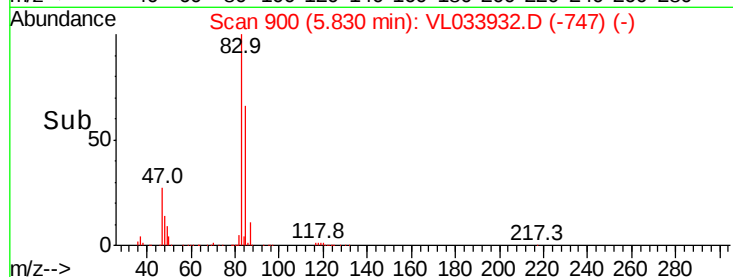
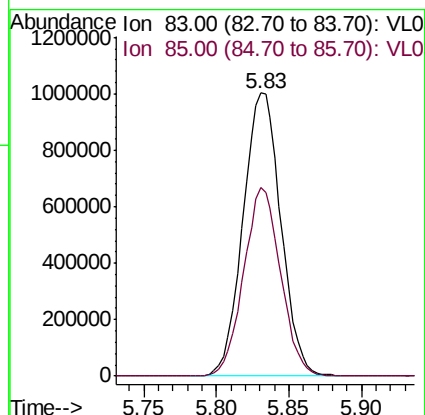
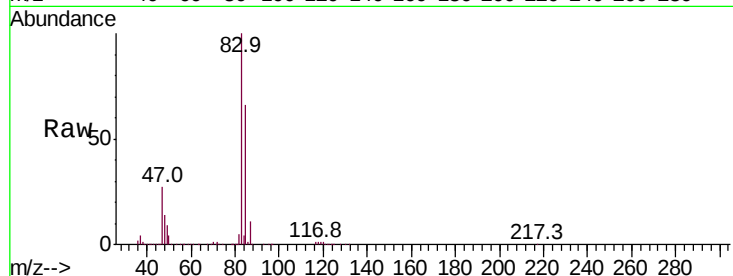




#29
Chloroform
Concen: 9.340 ppbv
RT: 5.83 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL033932.D
Acq: 24 Jun 2019 11:41

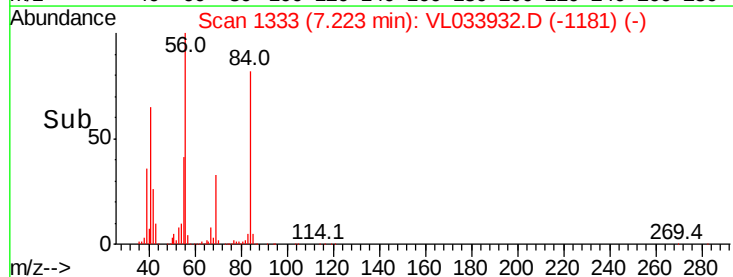
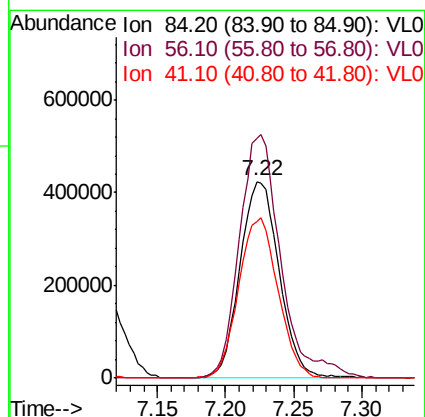
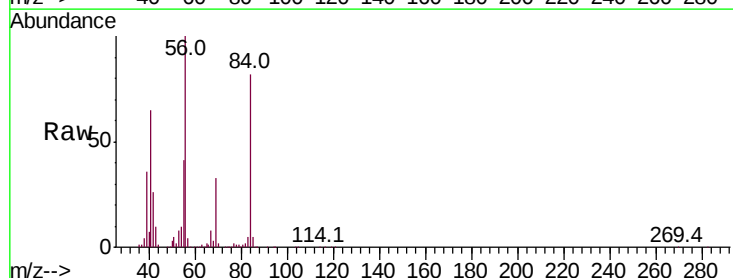
Instrument :
MSVOA_L
ClientSampleId :
VL0624ABS01

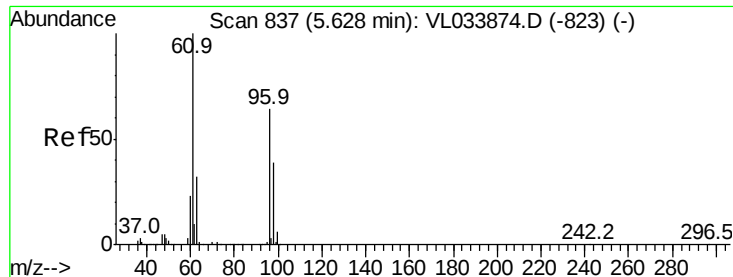
Tot Ion: 83 Resp: 1823159
Ion Ratio Lower Upper
83 100
85 66.4 50.5 75.7



#30
Cyclohexane
Concen: 10.550 ppbv
RT: 7.22 min Scan# 1333
Delta R.T. -0.01 min
Lab File: VL033932.D
Acq: 24 Jun 2019 11:41

Tgt Ion: 84 Resp: 849548
Ion Ratio Lower Upper
84 100
56 131.3 105.8 158.8
41 81.9 65.7 98.5



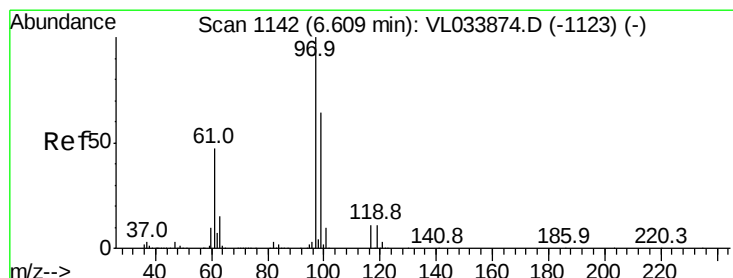
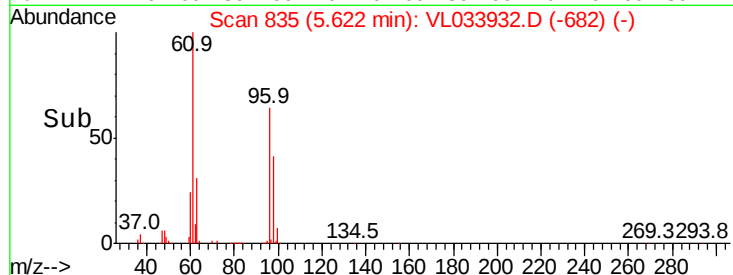
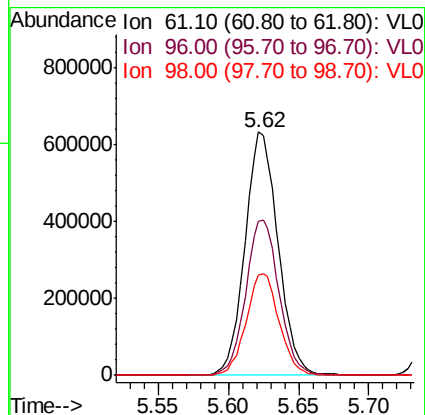
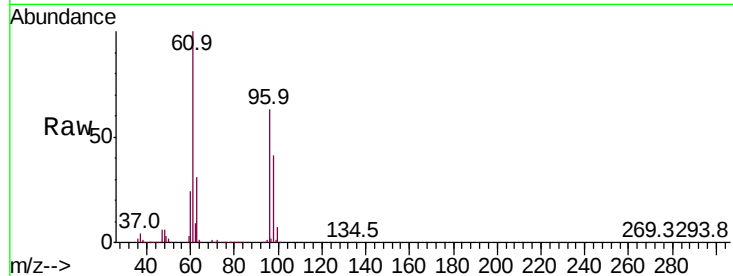


#31

cis-1,2-Dichloroethene
Concen: 10.412 ppbv
RT: 5.62 min Scan# 835
Delta R.T. -0.01 min
Lab File: VL033932.D
Acq: 24 Jun 2019 11:41

Instrument :
MSVOA_L
ClientSampleId :
VL0624ABS01

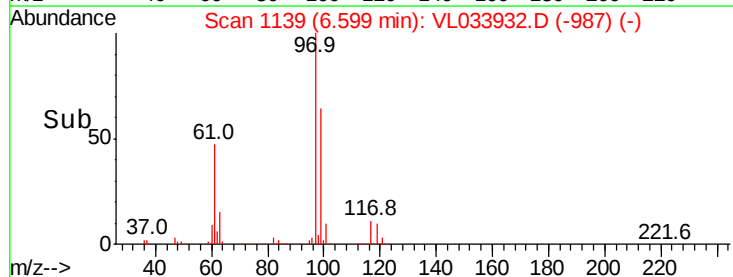
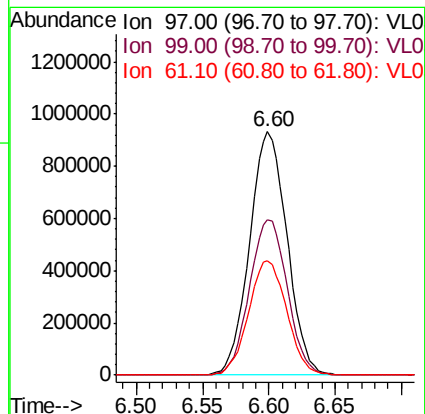
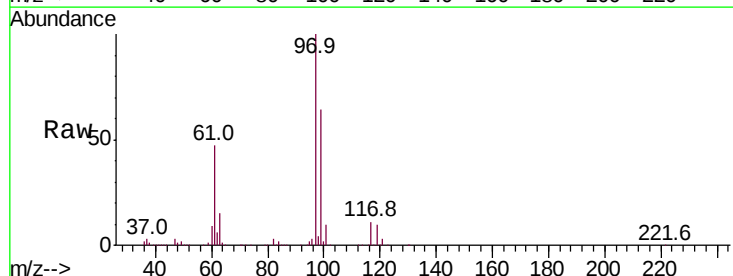
Tot Ion: 61 Resp: 1040640
Ion Ratio Lower Upper
61 100
96 63.4 50.9 76.3
98 41.2 31.4 47.2

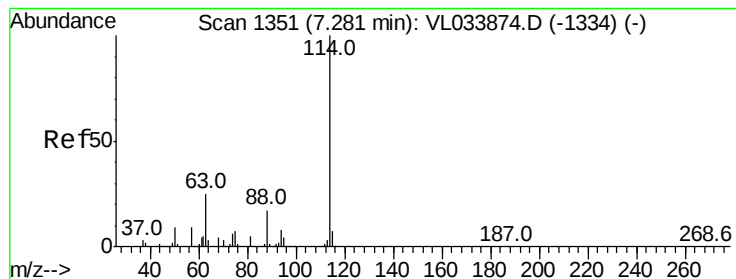


#32

1,1,1-Trichloroethane
Concen: 9.747 ppbv
RT: 6.60 min Scan# 1139
Delta R.T. -0.01 min
Lab File: VL033932.D
Acq: 24 Jun 2019 11:41

Tgt Ion: 97 Resp: 1835400
Ion Ratio Lower Upper
97 100
99 64.7 51.7 77.5
61 48.0 37.7 56.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.27 min Scan# 1348

Delta R.T. -0.01 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Instrument :

MSVOA_L

ClientSampleId :

VL0624ABS01

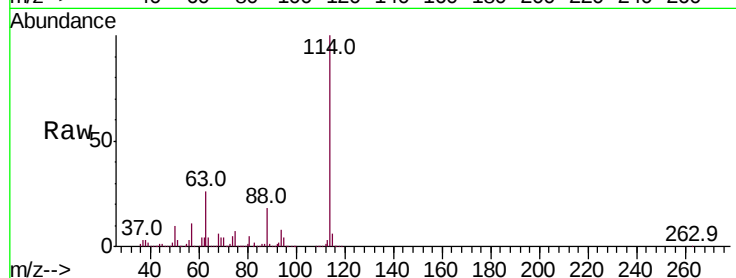
Tot Ion:114 Resp: 2562059

Ion Ratio Lower Upper

114 100

63 26.3 21.1 31.7

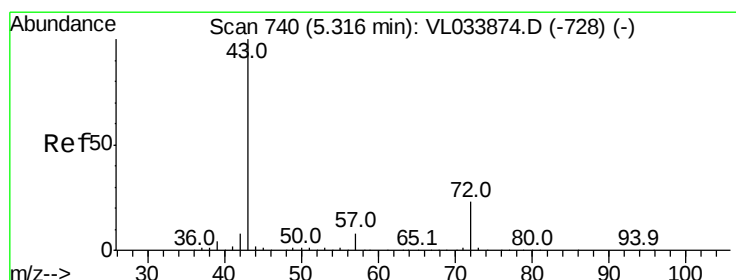
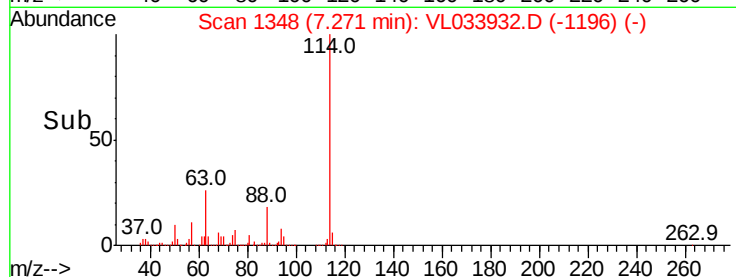
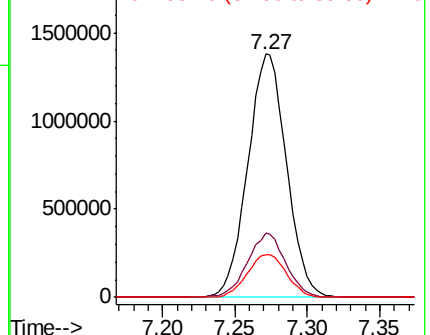
88 18.0 14.2 21.4



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: 9.221 ppbv

RT: 5.31 min Scan# 739

Delta R.T. -0.00 min

Lab File: VL033932.D

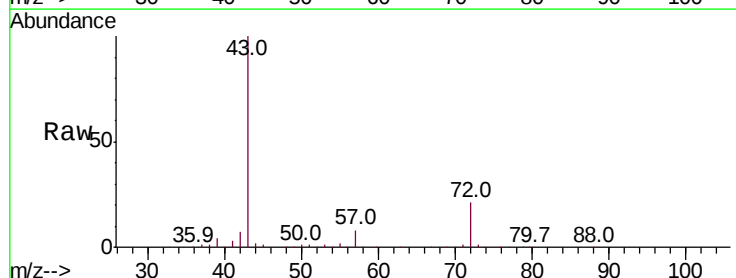
Acq: 24 Jun 2019 11:41

Tgt Ion: 43 Resp: 1332816

Ion Ratio Lower Upper

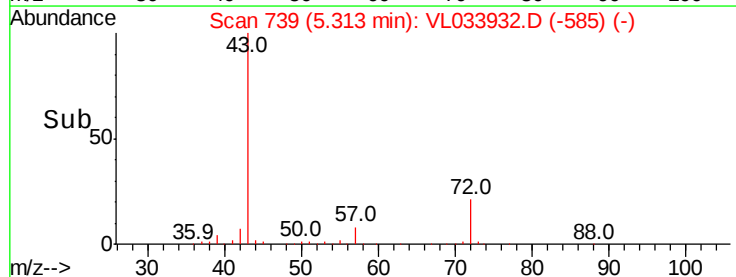
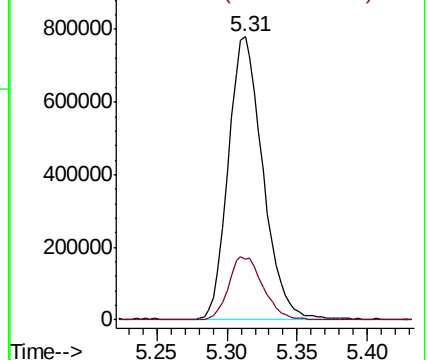
43 100

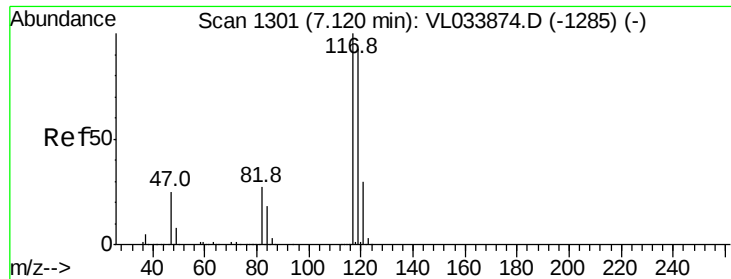
72 22.3 17.9 26.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 10.058 ppbv

RT: 7.11 min Scan# 1299

Delta R.T. -0.01 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Instrument :

MSVOA_L

ClientSampleId :

VL0624ABS01

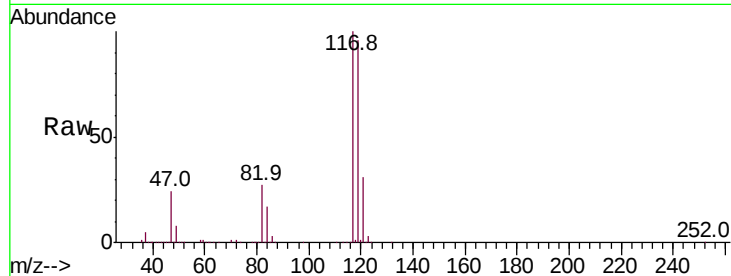
Tot Ion:117 Resp: 1990961

Ion Ratio Lower Upper

117 100

119 96.1 74.6 111.8

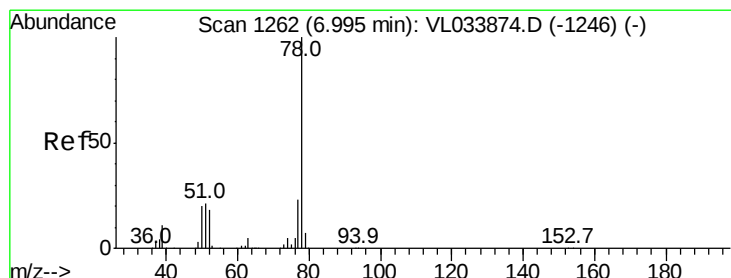
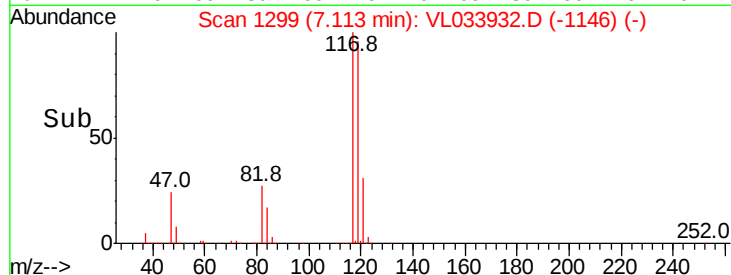
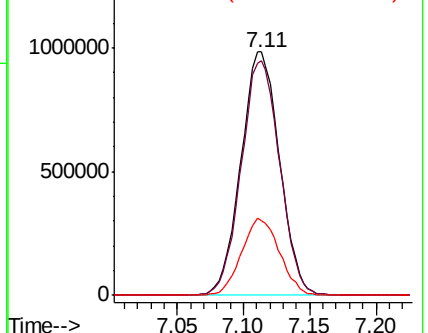
121 30.7 24.0 36.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.515 ppbv

RT: 6.98 min Scan# 1259

Delta R.T. -0.01 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

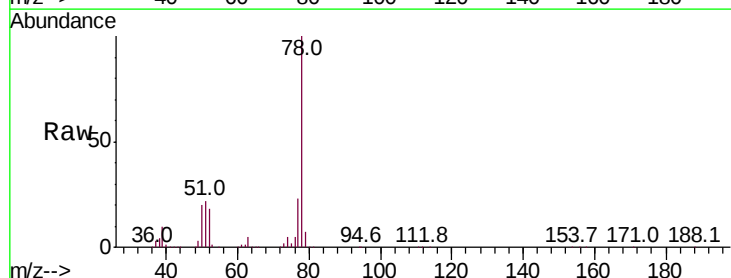
Tgt Ion: 78 Resp: 2057959

Ion Ratio Lower Upper

78 100

77 22.8 18.2 27.2

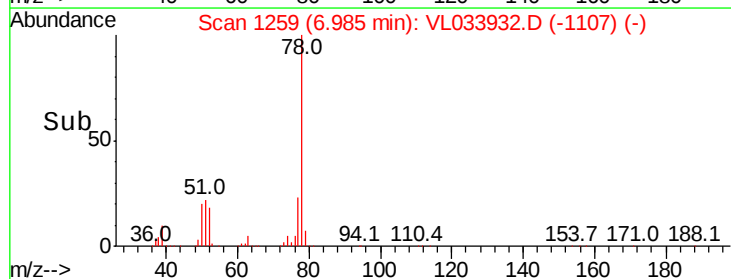
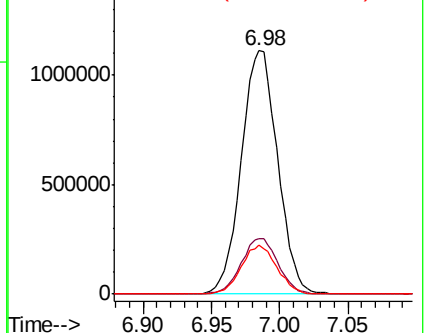
50 19.9 15.9 23.9

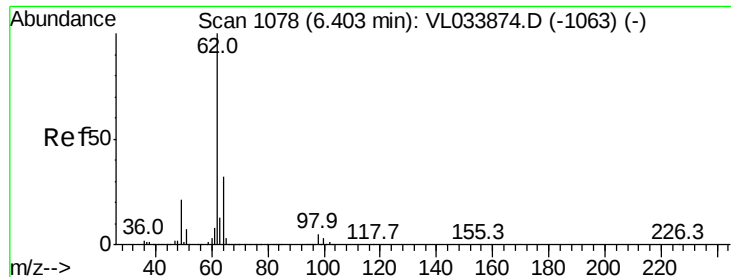


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 9.122 ppbv

RT: 6.39 min Scan# 1075

Delta R.T. -0.01 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Instrument :

MSVOA_L

ClientSampleId :

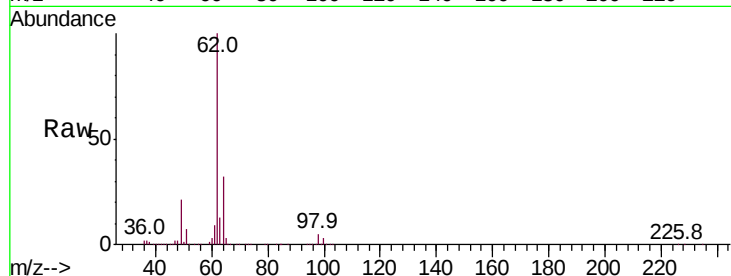
VL0624ABS01

Tot Ion: 62 Resp: 1320396

Ion Ratio Lower Upper

62 100

98 5.2 4.0 6.0



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.39

800000

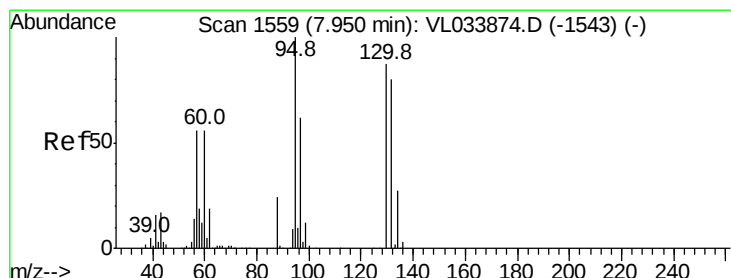
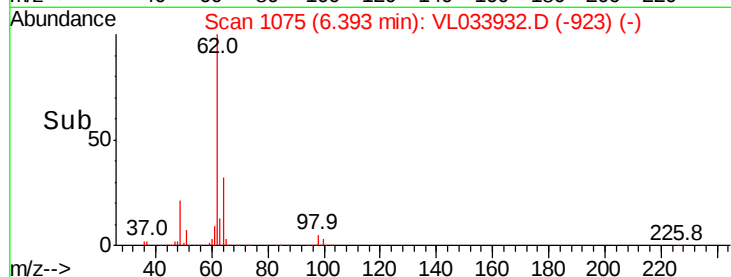
600000

400000

200000

0

Time--> 6.30 6.35 6.40 6.45 6.50



#38

Trichloroethene

Concen: 11.383 ppbv

RT: 7.94 min Scan# 1556

Delta R.T. -0.01 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Tgt Ion:130 Resp: 867402

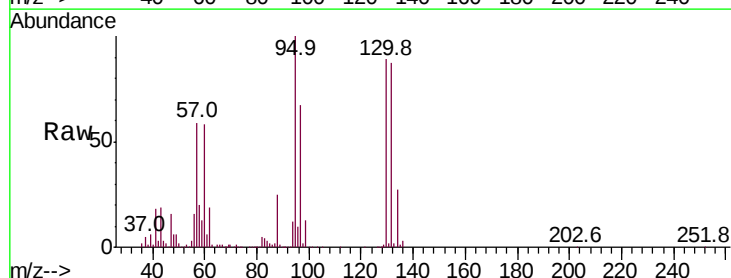
Ion Ratio Lower Upper

130 100

95 111.9 92.0 138.0

132 97.2 73.8 110.8

97 75.1 57.2 85.8



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

800000

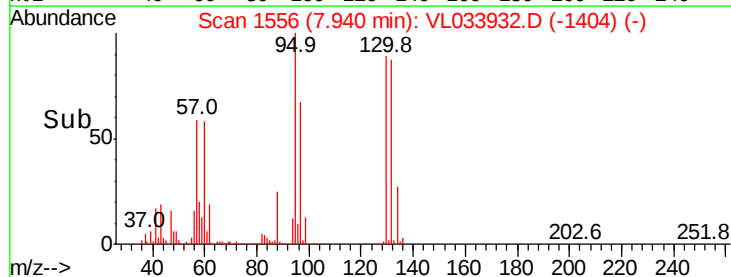
600000

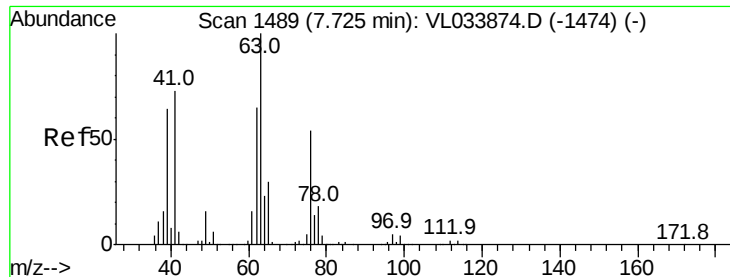
400000

200000

0

Time--> 7.85 7.90 7.95 8.00





#39

1,2-Dichloropropane

Concen: 9.986 ppbv

RT: 7.71 min Scan# 1486

Delta R.T. -0.01 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Instrument :

MSVOA_L

ClientSampleId :

VL0624ABS01

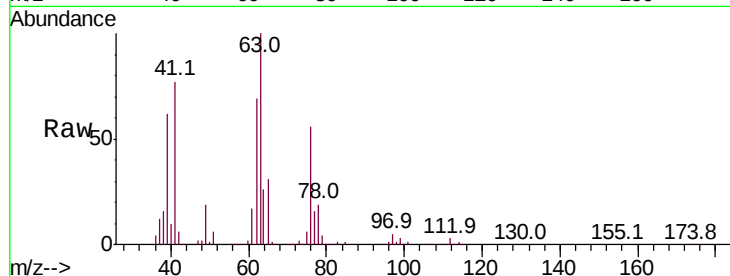
Tot Ion: 63 Resp: 754274

Ion Ratio Lower Upper

63 100

41 76.7 58.7 88.1

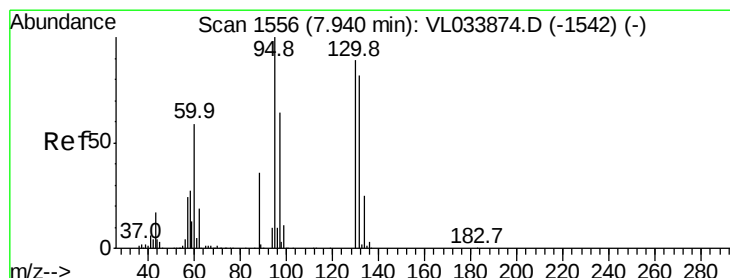
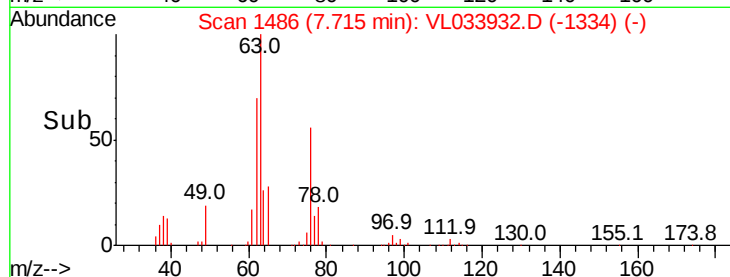
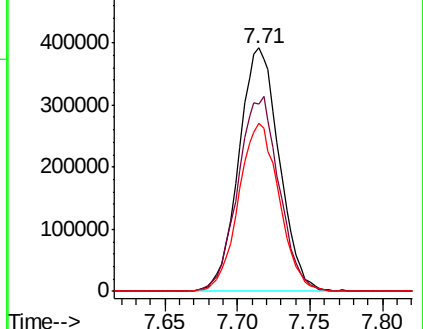
62 69.3 51.9 77.9



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 10.395 ppbv

RT: 7.93 min Scan# 1554

Delta R.T. -0.01 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Tgt Ion: 88 Resp: 320240

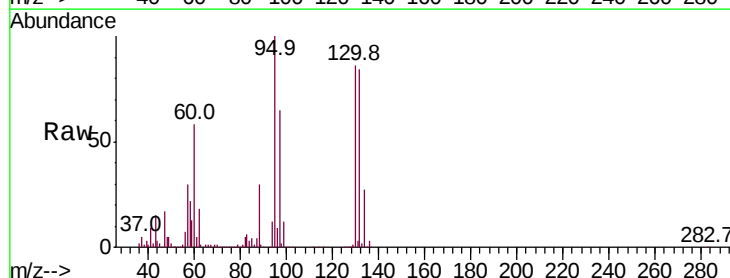
Ion Ratio Lower Upper

88 100

58 125.0 100.0 150.0

43 245.6 184.7 277.1

57 1100.7 826.8 1240.2

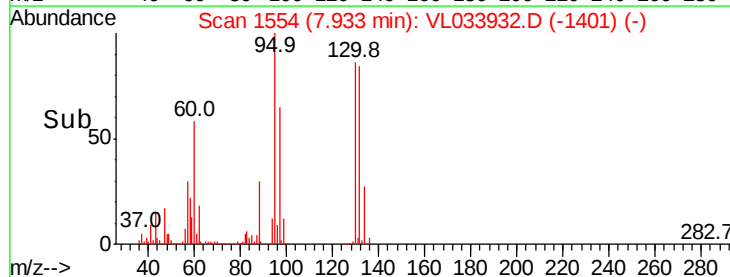
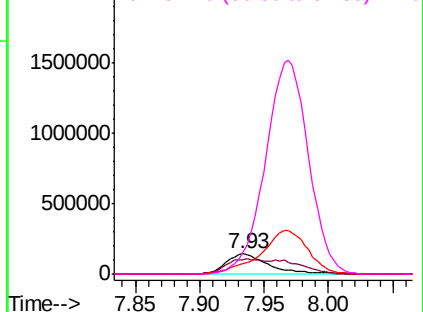


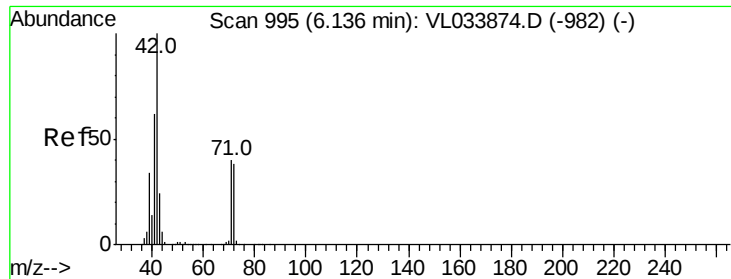
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 10.474 ppbv

RT: 6.13 min Scan# 993

Delta R.T. -0.01 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Instrument :

MSVOA_L

ClientSampleId :

VL0624ABS01

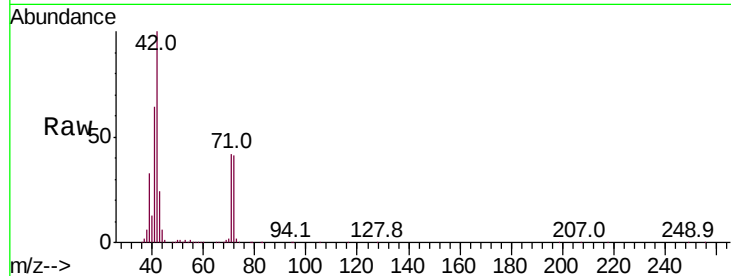
Tot Ion: 42 Resp: 768399

Ion Ratio Lower Upper

42 100

72 41.1 32.2 48.4

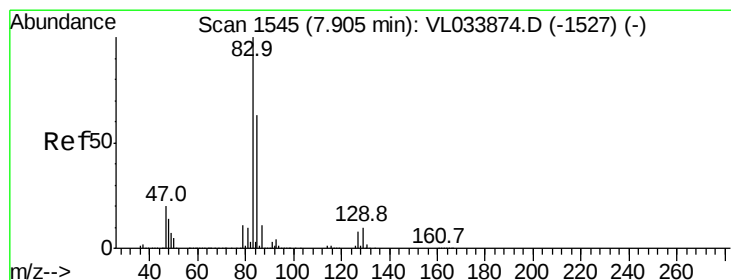
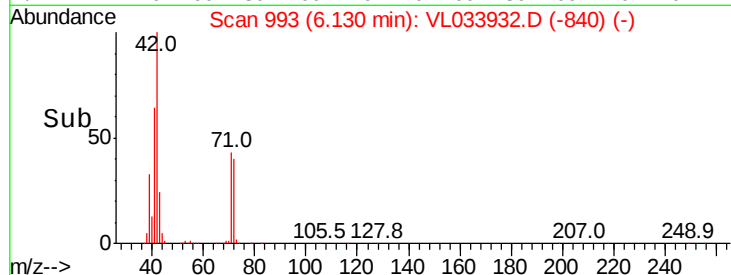
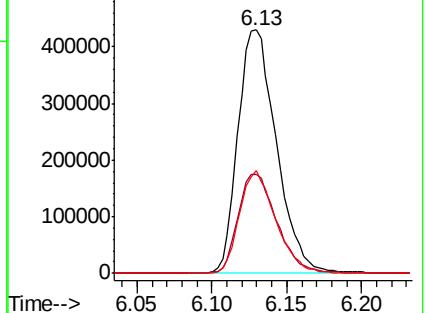
71 40.1 31.7 47.5



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 9.995 ppbv

RT: 7.89 min Scan# 1542

Delta R.T. -0.01 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

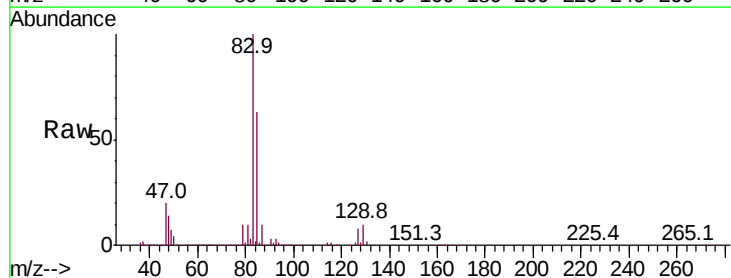
Tgt Ion: 83 Resp: 1933214

Ion Ratio Lower Upper

83 100

85 63.2 50.2 75.2

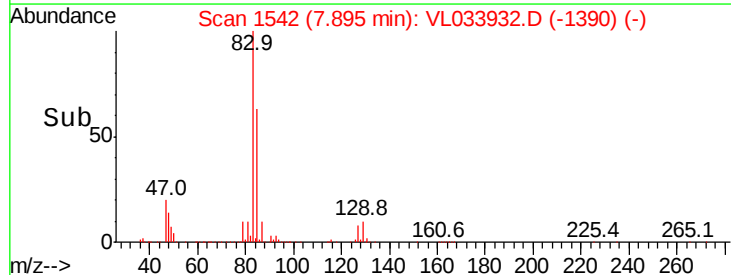
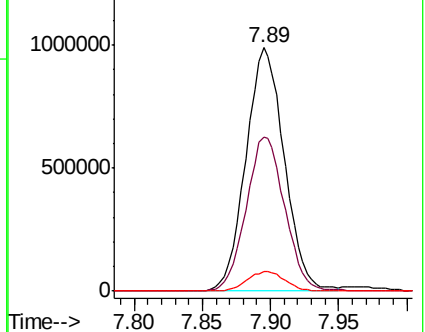
127 8.2 6.5 9.7

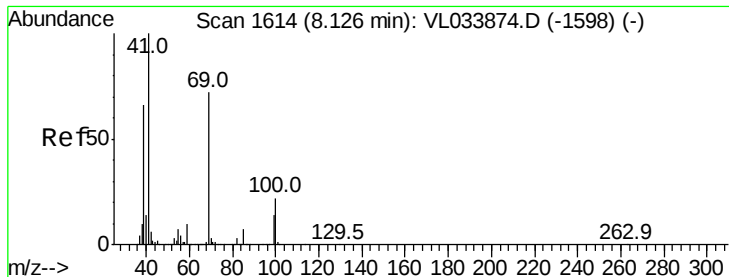


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V





#43

Methyl Methacrylate

Concen: 11.509 ppbv

RT: 8.11 min Scan# 1610

Delta R.T. -0.01 min

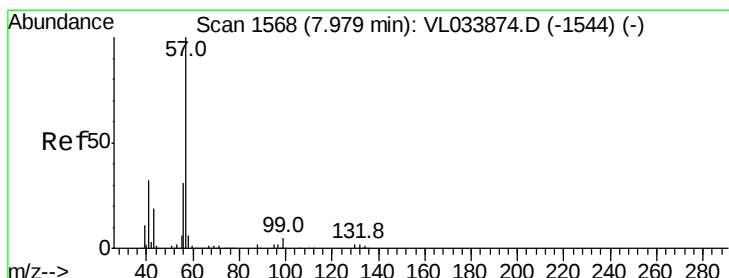
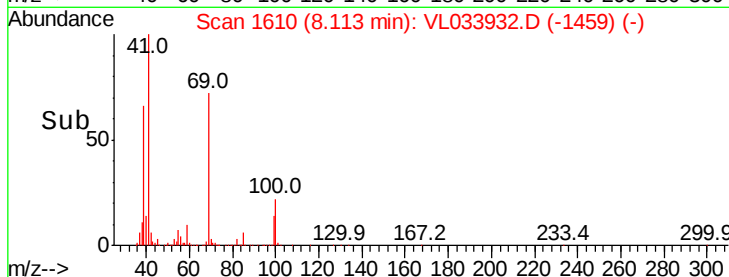
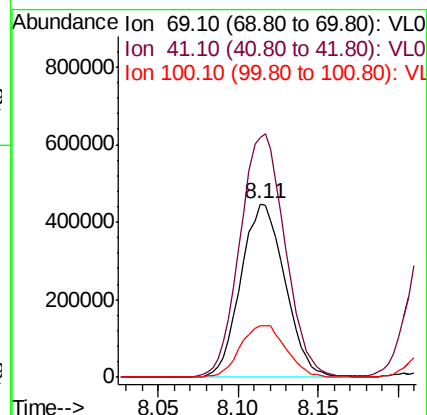
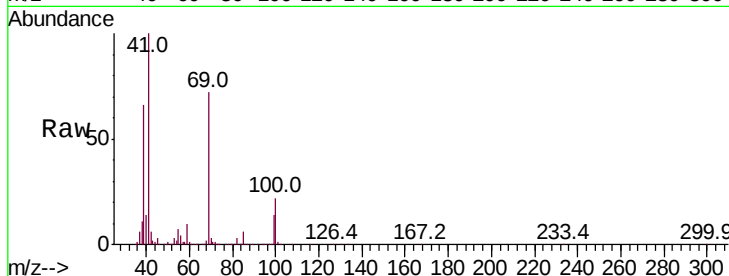
Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Instrument :
MSVOA_L
ClientSampleId :
VL0624ABS01

Tot Ion: 69 Resp: 842395

Ion	Ratio	Lower	Upper
69	100		
41	143.5	114.3	171.5
100	31.1	24.8	37.2



#44

2,2,4-Trimethylpentane

Concen: 10.110 ppbv

RT: 7.97 min Scan# 1565

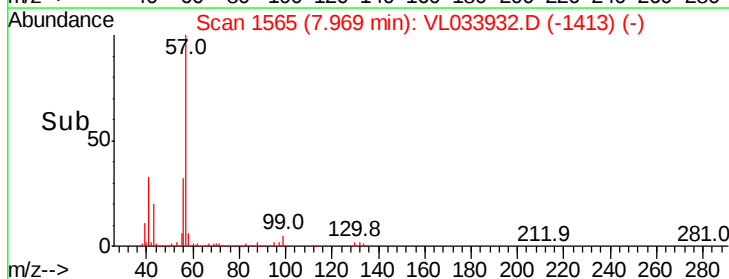
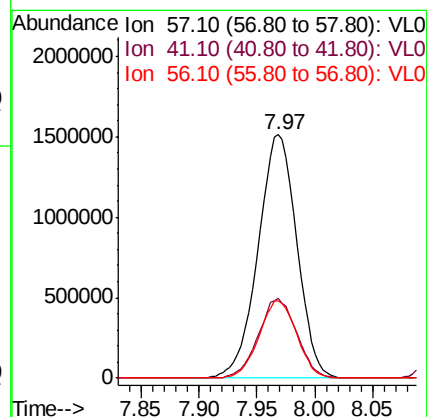
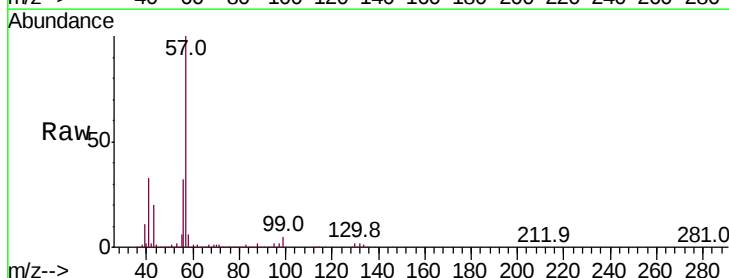
Delta R.T. -0.01 min

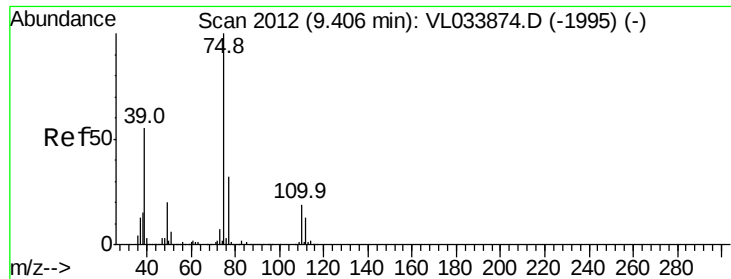
Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Tgt Ion: 57 Resp: 3518688

Ion	Ratio	Lower	Upper
57	100		
41	32.4	26.1	39.1
56	31.0	24.6	36.8





#45

t-1,3-Dichloropropene

Concen: 10.862 ppbv

RT: 9.39 min Scan# 2008

Delta R.T. -0.01 min

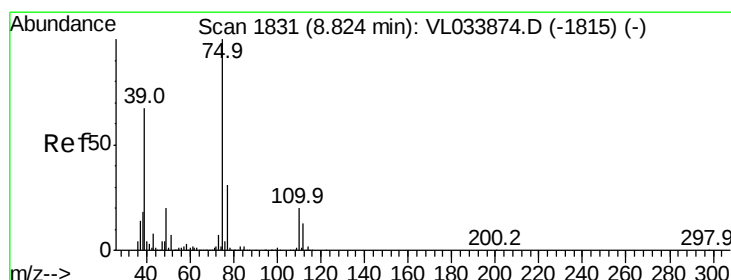
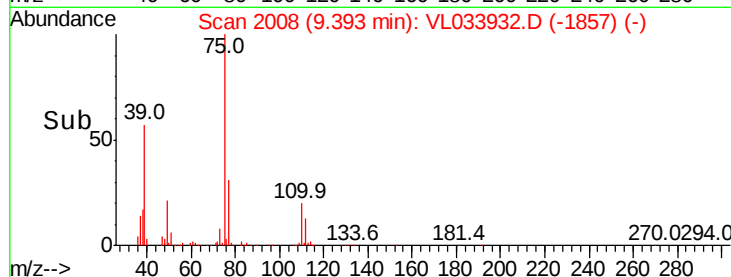
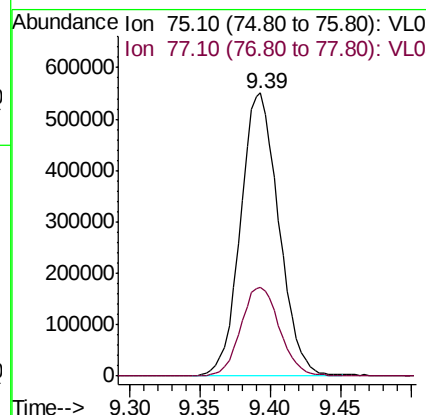
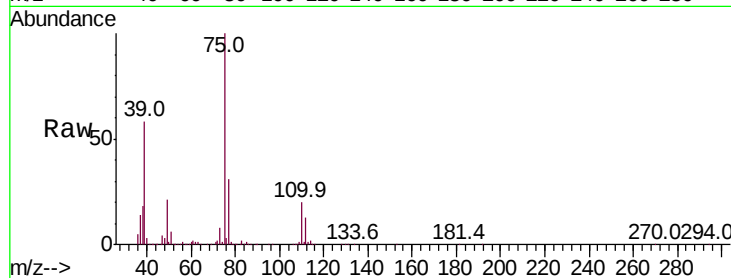
Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Instrument :
MSVOA_L
ClientSampleId :
VL0624ABS01

Tot Ion: 75 Resp: 1043235

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.4	38.2



#46

cis-1,3-Dichloropropene

Concen: 11.314 ppbv

RT: 8.81 min Scan# 1828

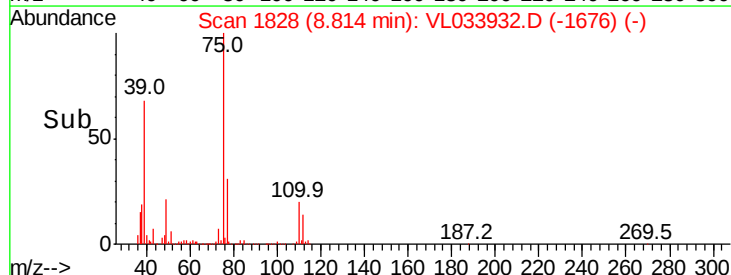
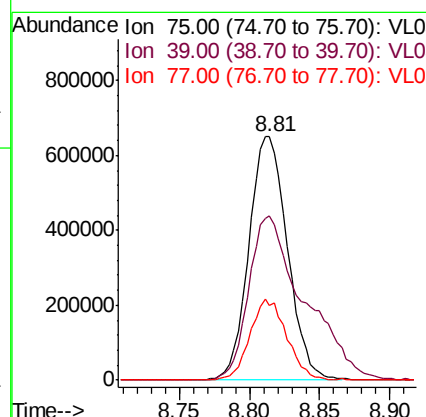
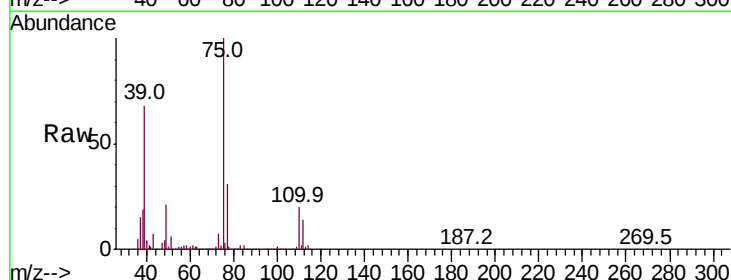
Delta R.T. -0.01 min

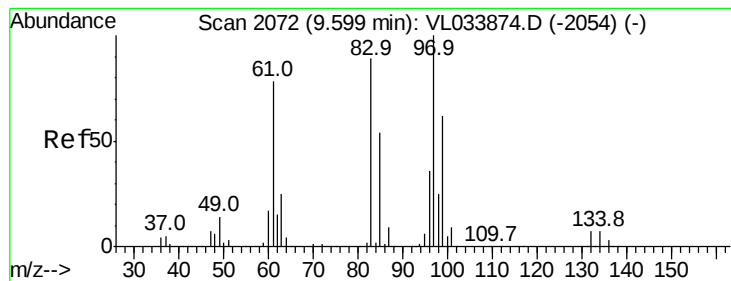
Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Tgt Ion: 75 Resp: 1244917

Ion	Ratio	Lower	Upper
75	100		
39	67.7	53.8	80.8
77	30.6	24.6	36.8





#47

1,1,2-Trichloroethane

Concen: 9.960 ppbv

RT: 9.59 min Scan# 2069

Delta R.T. -0.01 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Instrument :

MSVOA_L

ClientSampleId :

VL0624ABS01

Tot Ion: 97 Resp: 896848

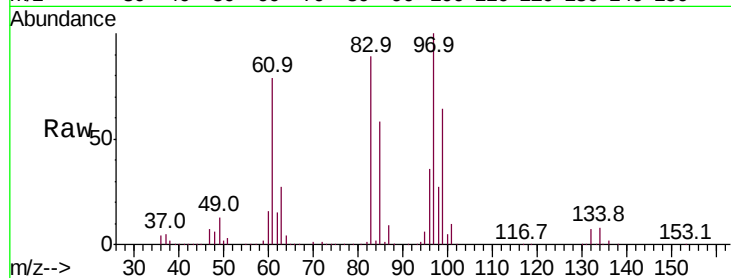
Ion Ratio Lower Upper

97 100

83 89.5 70.9 106.3

85 57.8 43.0 64.6

99 64.1 49.3 73.9

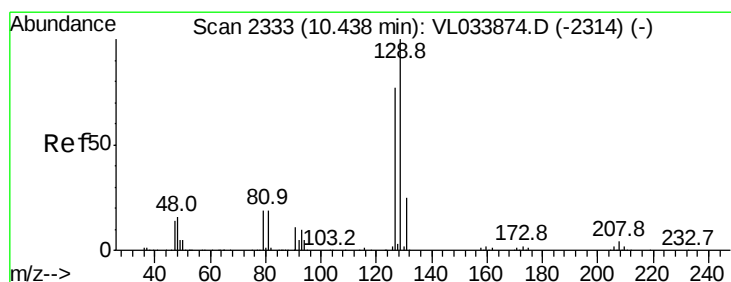
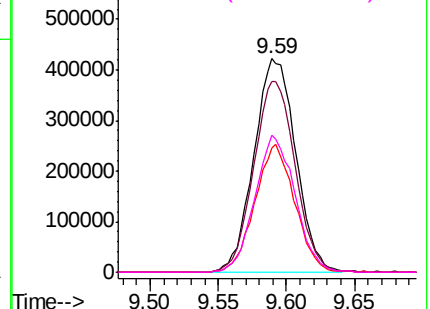
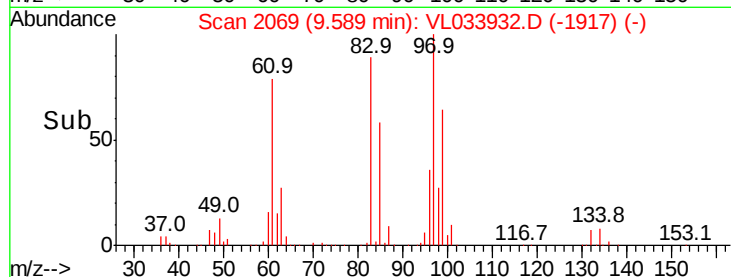


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 10.401 ppbv

RT: 10.43 min Scan# 2329

Delta R.T. -0.01 min

Lab File: VL033932.D

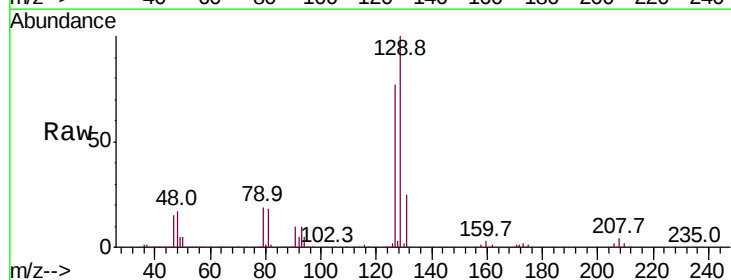
Acq: 24 Jun 2019 11:41

Tgt Ion:129 Resp: 1683203

Ion Ratio Lower Upper

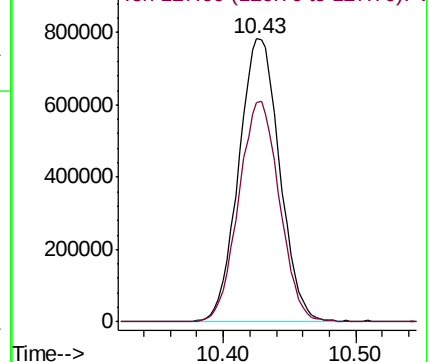
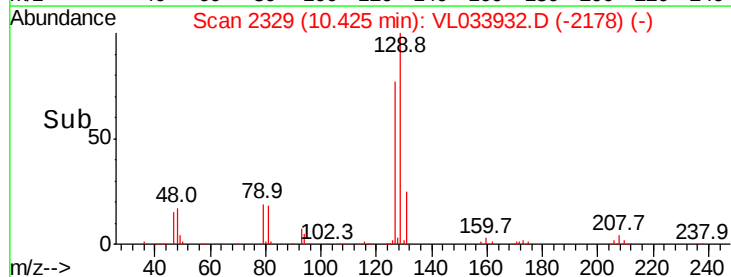
129 100

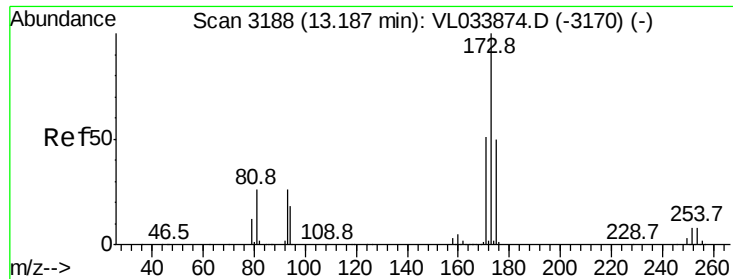
127 77.7 38.6 115.7



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.014 ppbv

RT: 13.18 min Scan# 3185

Delta R.T. -0.01 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Instrument :

MSVOA_L

ClientSampleId :

VL0624ABS01

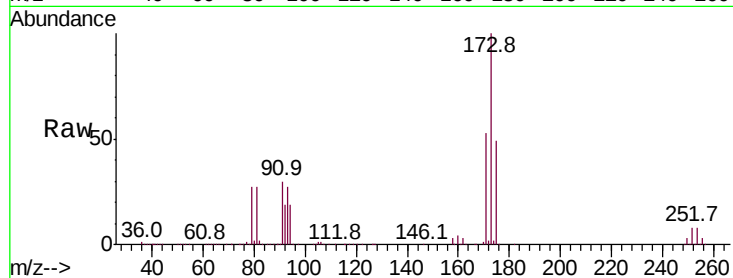
Tot Ion:173 Resp: 1430500

Ion Ratio Lower Upper

173 100

175 48.5 39.6 59.4

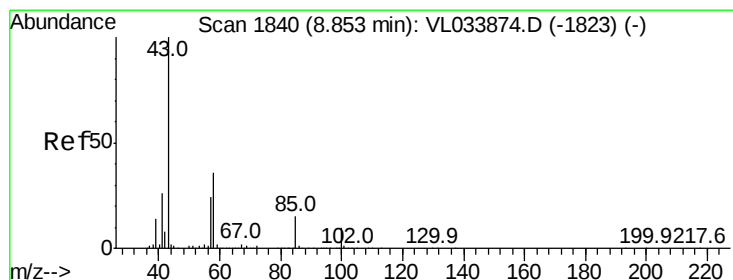
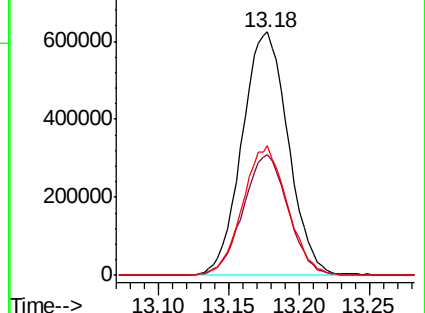
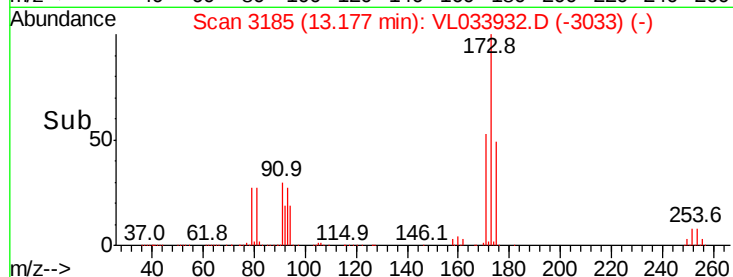
171 51.5 41.8 62.8



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: 10.724 ppbv

RT: 8.85 min Scan# 1838

Delta R.T. -0.01 min

Lab File: VL033932.D

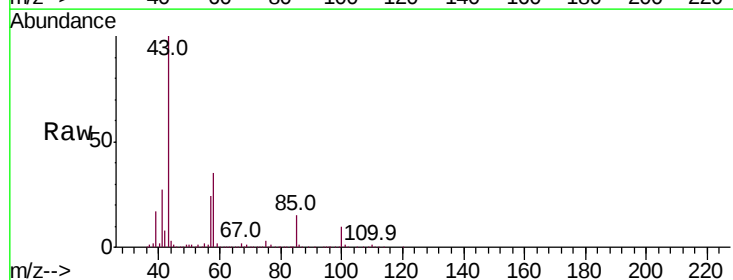
Acq: 24 Jun 2019 11:41

Tgt Ion: 43 Resp: 2311291

Ion Ratio Lower Upper

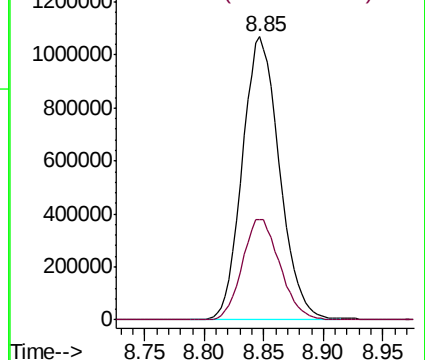
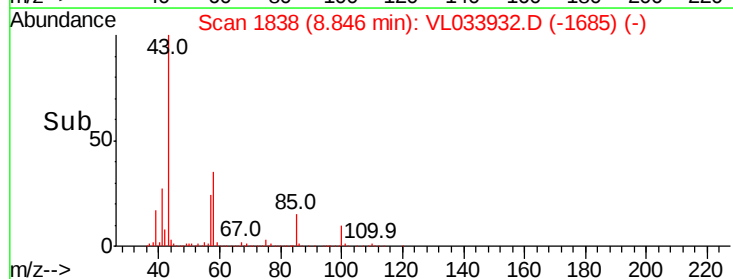
43 100

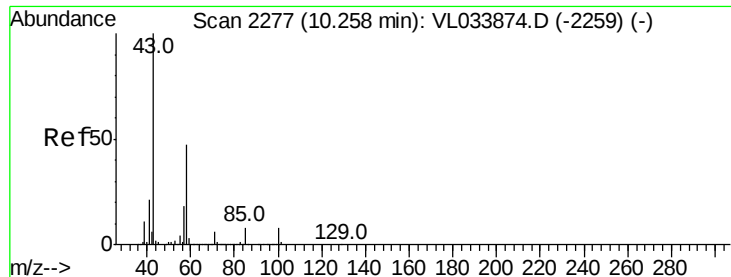
58 36.1 28.6 42.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 11.079 ppbv

RT: 10.25 min Scan# 2273

Delta R.T. -0.01 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Instrument :

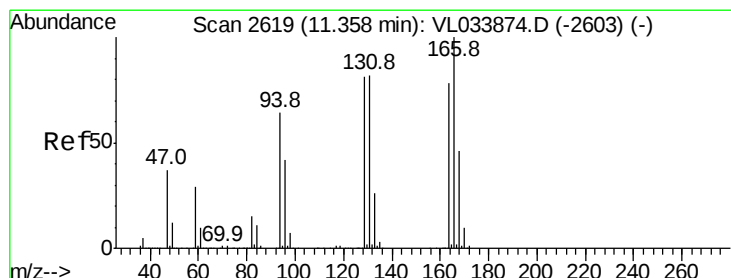
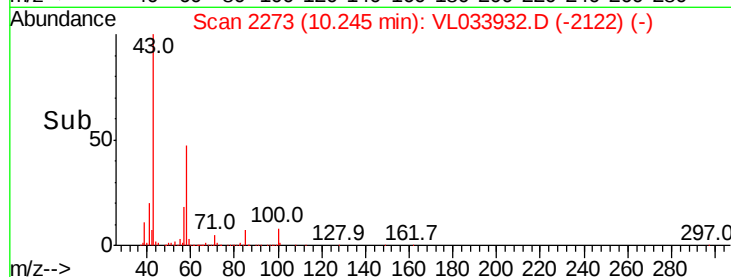
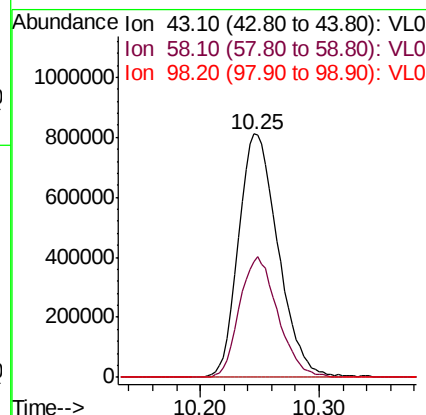
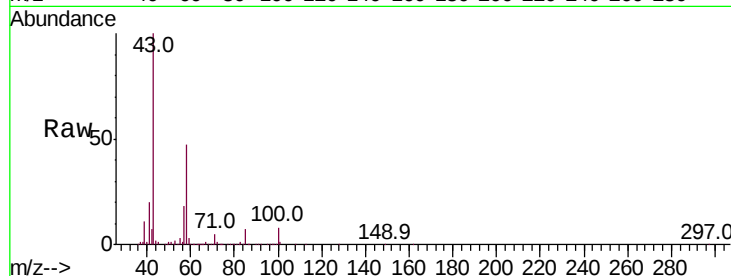
MSVOA_L

ClientSampleId :

VL0624ABS01

Tot Ion: 43 Resp: 1864733

Ion	Ratio	Lower	Upper
43	100		
58	48.2	38.2	57.4
98	0.5	0.2	0.2#



#52

Tetrachloroethene

Concen: 11.923 ppbv

RT: 11.35 min Scan# 2616

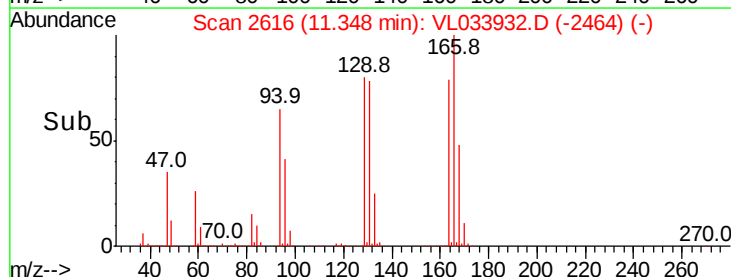
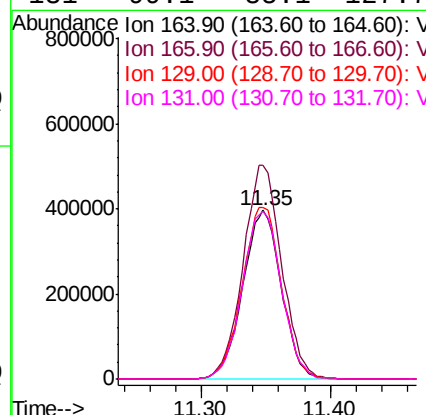
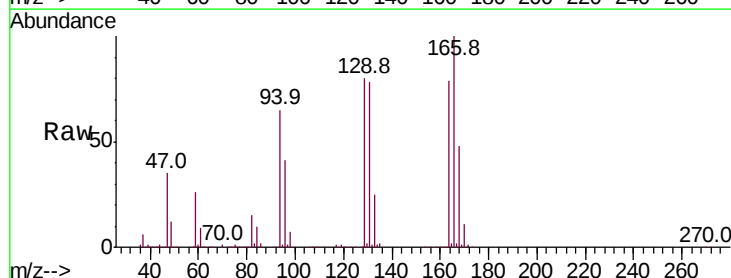
Delta R.T. -0.01 min

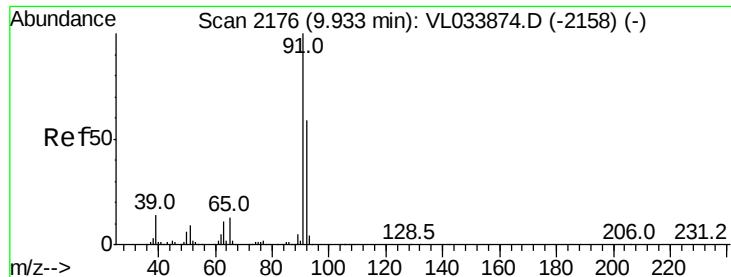
Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Tgt Ion: 164 Resp: 821058

Ion	Ratio	Lower	Upper
164	100		
166	126.6	103.1	154.7
129	101.7	83.9	125.9
131	99.1	85.1	127.7





#53

Toluene

Concen: 11.385 ppbv

RT: 9.92 min Scan# 2172

Delta R.T. -0.01 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Instrument :

MSVOA_L

ClientSampleId :

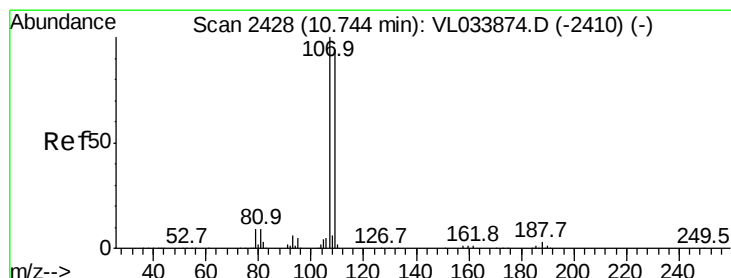
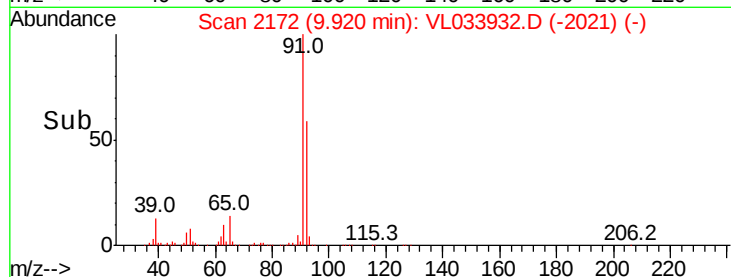
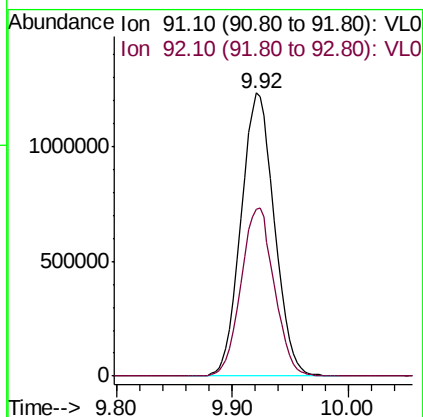
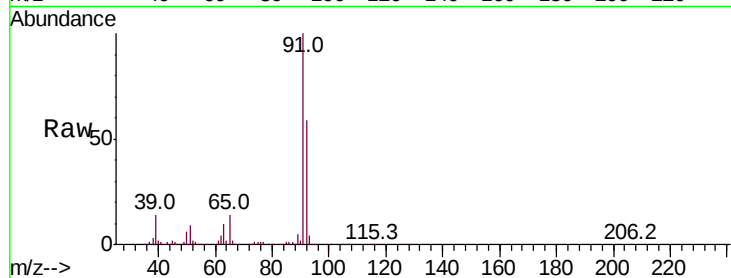
VL0624ABS01

Tot Ion: 91 Resp: 2465738

Ion Ratio Lower Upper

91 100

92 59.3 47.0 70.6



#54

1,2-Dibromoethane

Concen: 10.460 ppbv

RT: 10.73 min Scan# 2425

Delta R.T. -0.01 min

Lab File: VL033932.D

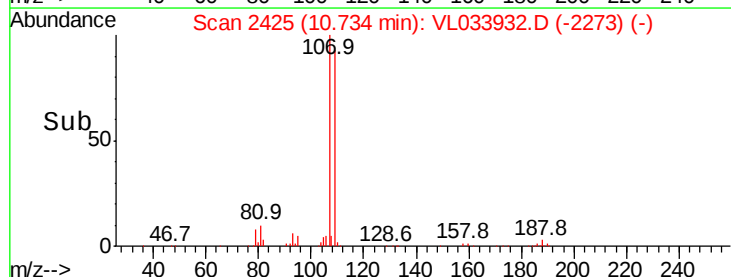
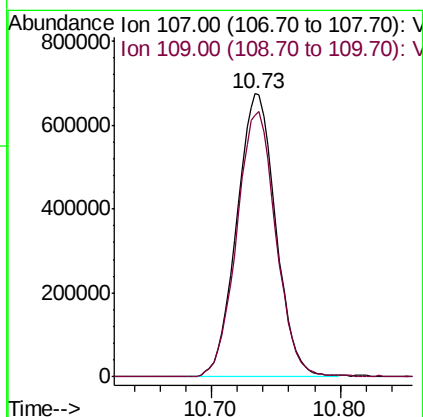
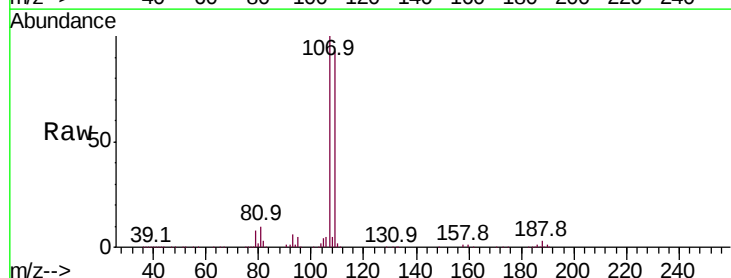
Acq: 24 Jun 2019 11:41

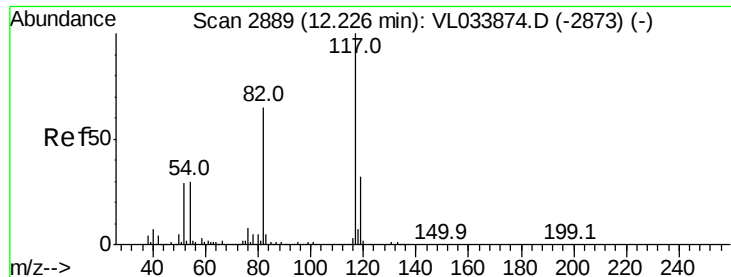
Tgt Ion: 107 Resp: 1419779

Ion Ratio Lower Upper

107 100

109 92.5 74.9 112.3

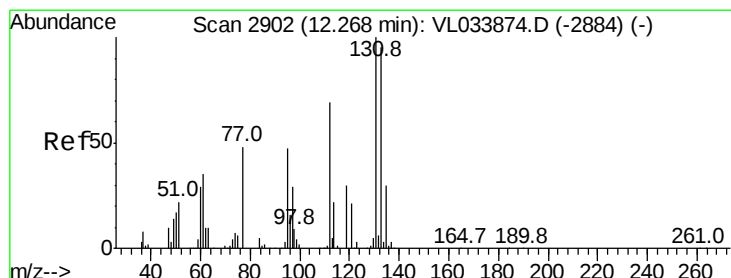
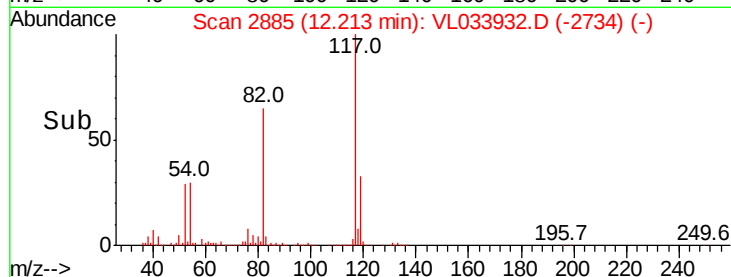
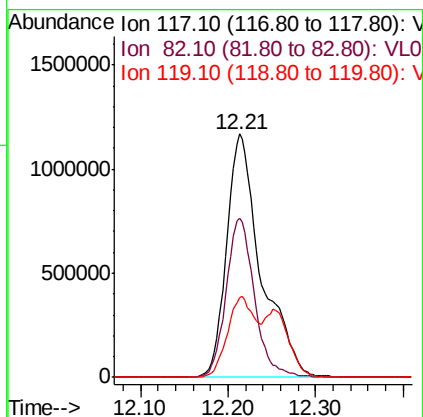
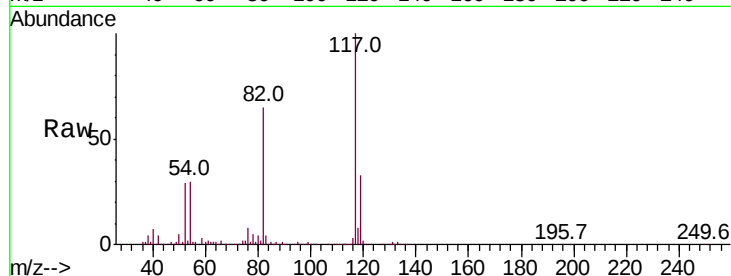




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.21 min Scan# 2885
Delta R.T. -0.01 min
Lab File: VL033932.D
Acq: 24 Jun 2019 11:41

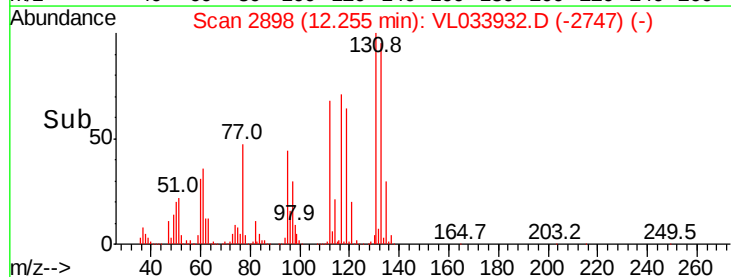
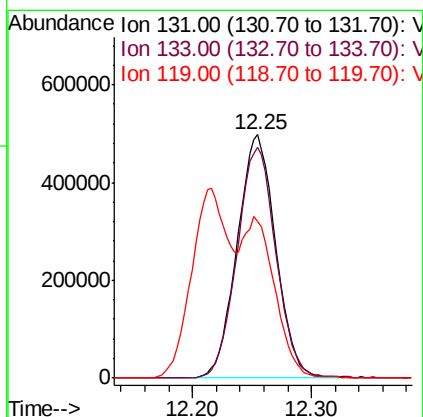
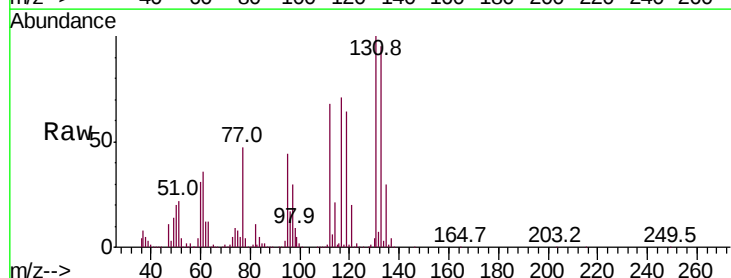
Instrument :
MSVOA_L
ClientSampleId :
VL0624ABS01

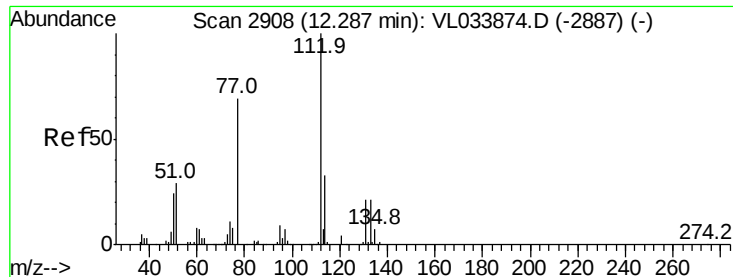
Tot Ion:117 Resp: 3208634
Ion Ratio Lower Upper
117 100
82 54.0 50.2 75.2
119 24.6 24.8 37.2#



#56
1,1,1,2-Tetrachloroethane
Concen: 7.957 ppbv
RT: 12.25 min Scan# 2898
Delta R.T. -0.01 min
Lab File: VL033932.D
Acq: 24 Jun 2019 11:41

Tgt Ion:131 Resp: 1115358
Ion Ratio Lower Upper
131 100
133 96.2 76.5 114.7
119 54.7 42.6 64.0





#57

Chlorobenzene

Concen: 7.639 ppbv

RT: 12.27 min Scan# 2904

Delta R.T. -0.01 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Instrument :

MSVOA_L

ClientSampleId :

VL0624ABS01

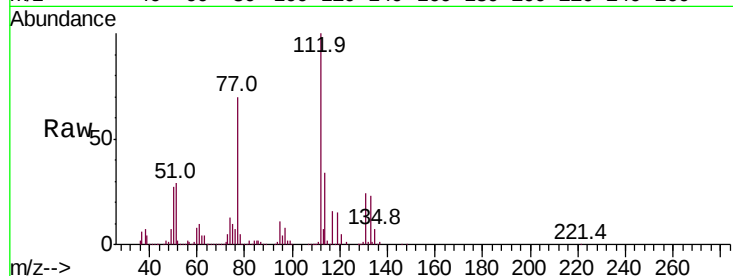
Tot Ion:112 Resp: 1835756

Ion Ratio Lower Upper

112 100

77 69.7 55.8 83.6

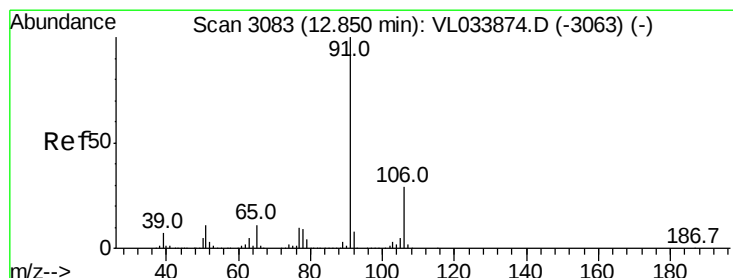
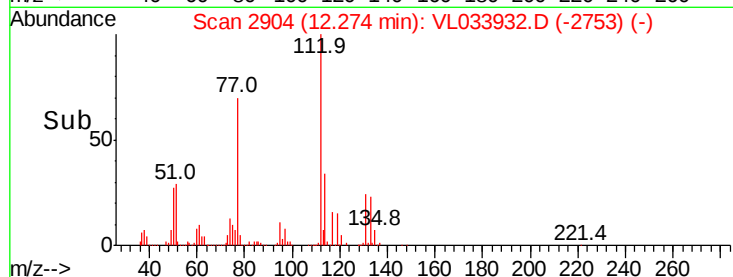
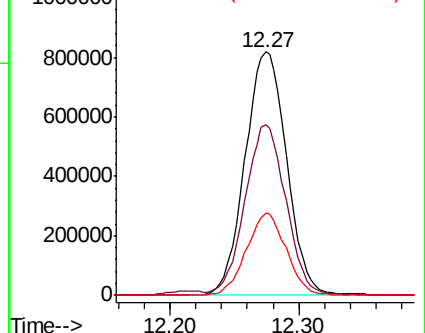
114 33.6 29.8 36.4



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: 9.178 ppbv

RT: 12.84 min Scan# 3080

Delta R.T. -0.01 min

Lab File: VL033932.D

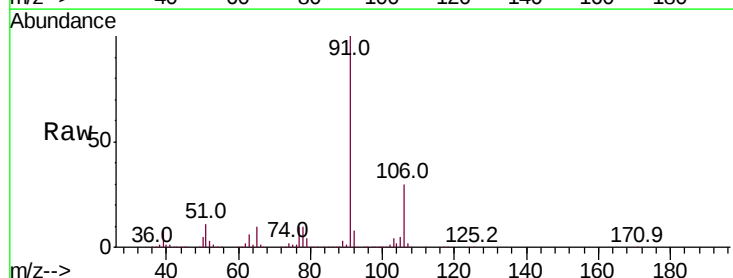
Acq: 24 Jun 2019 11:41

Tgt Ion: 91 Resp: 3320161

Ion Ratio Lower Upper

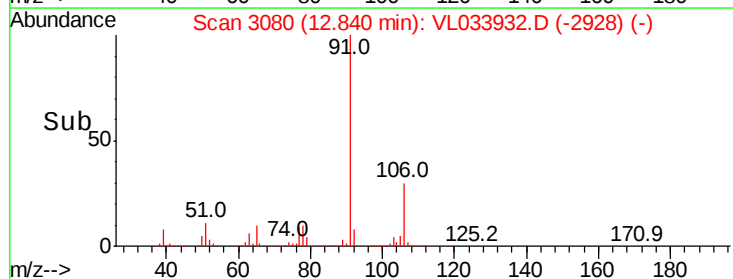
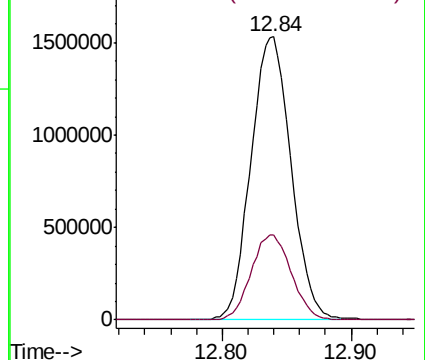
91 100

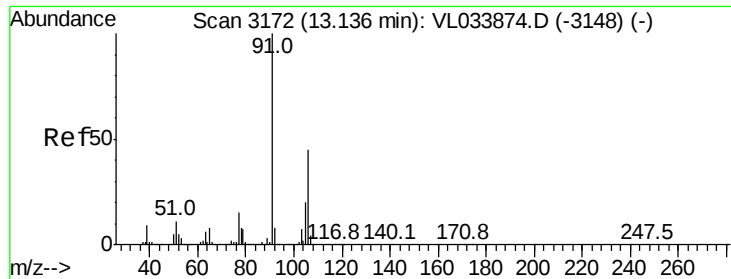
106 29.9 23.0 34.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

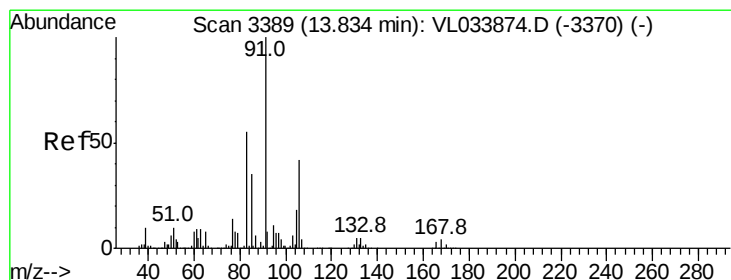
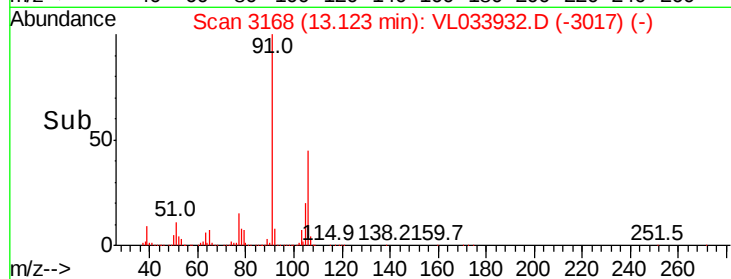
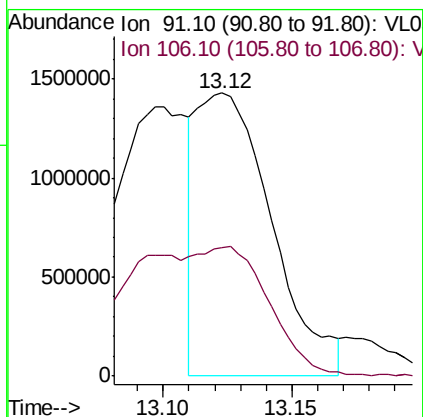
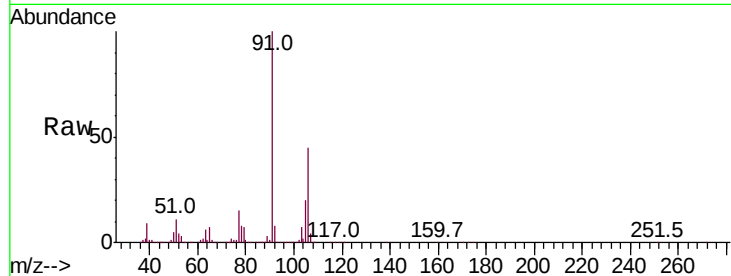




#59
m/p-Xylene
Concen: 8.686 ppbv
RT: 13.12 min Scan# 3168
Delta R.T. -0.01 min
Lab File: VL033932.D
Acq: 24 Jun 2019 11:41

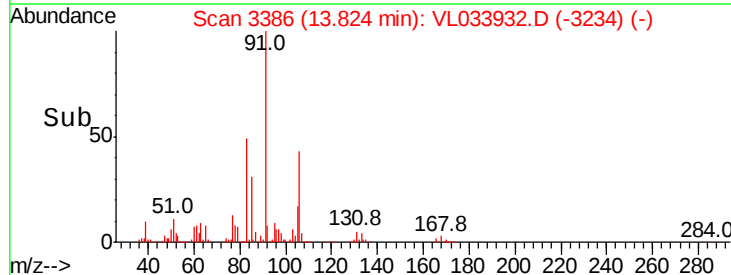
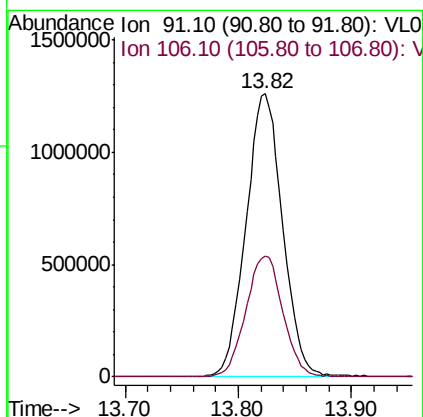
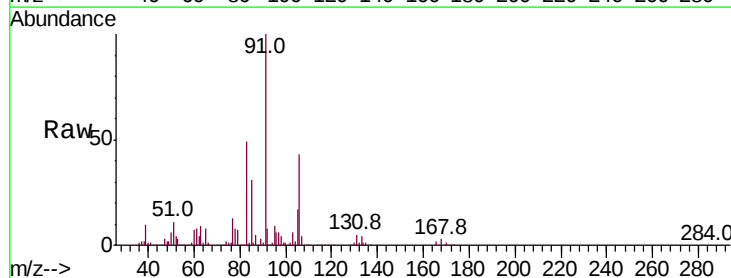
Instrument :
MSVOA_L
ClientSampleId :
VL0624ABS01

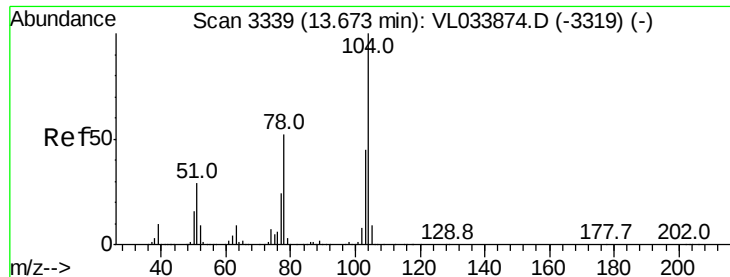
Tot Ion: 91 Resp: 2857575
Ion Ratio Lower Upper
91 100
106 88.3 35.8 53.8#



#60
o-Xylene
Concen: 8.324 ppbv
RT: 13.82 min Scan# 3386
Delta R.T. -0.01 min
Lab File: VL033932.D
Acq: 24 Jun 2019 11:41

Tgt Ion: 91 Resp: 2827274
Ion Ratio Lower Upper
91 100
106 43.7 21.7 65.1

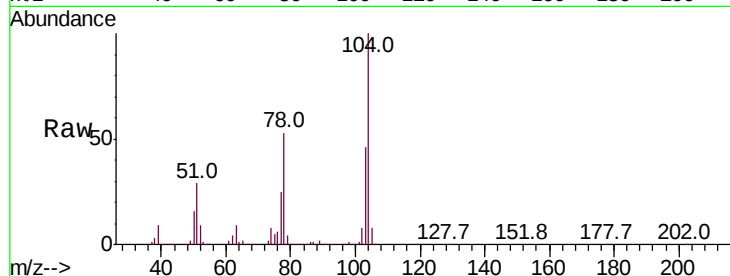




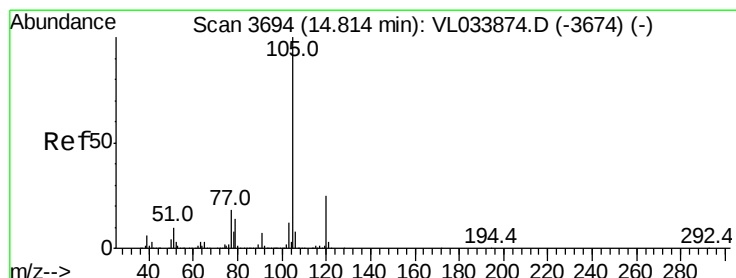
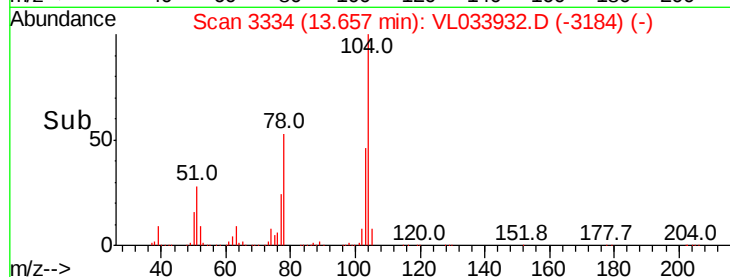
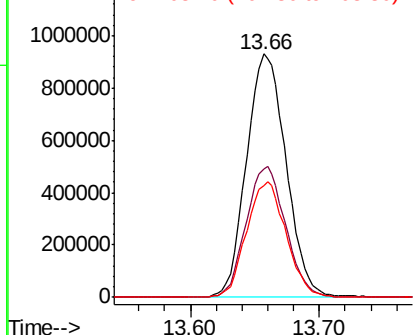
#61
Stvrene
Concen: 9.048 ppbv
RT: 13.66 min Scan# 3334
Delta R.T. -0.02 min
Lab File: VL033932.D
Acq: 24 Jun 2019 11:41

Instrument :
MSVOA_L
ClientSampleId :
VL0624ABS01

Tot Ion:104 Resp: 1988896
Ion Ratio Lower Upper
104 100
78 54.2 43.4 65.0
103 47.6 37.6 56.4

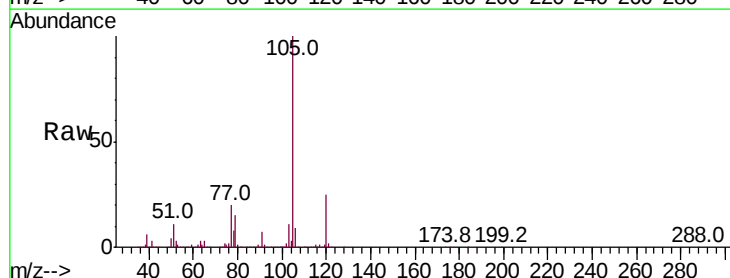


Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VL0
Ion 103.10 (102.80 to 103.80): V

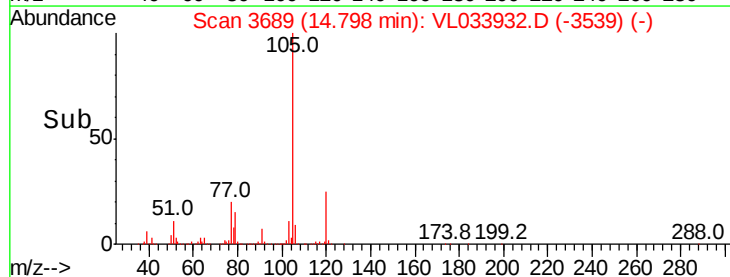
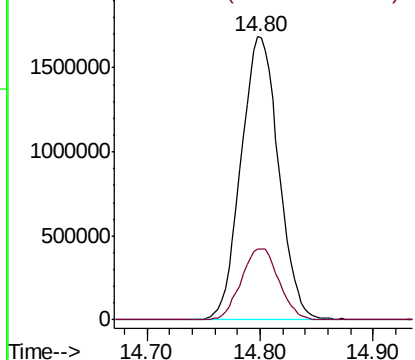


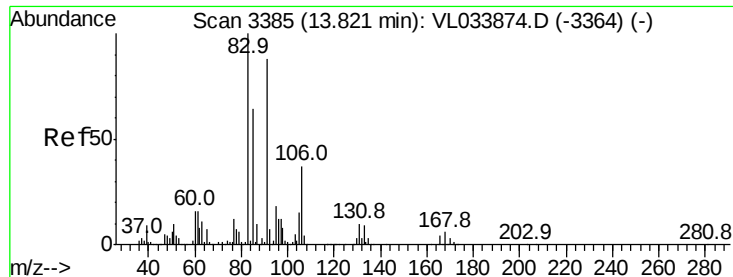
#62
Isopropylbenzene
Concen: 8.493 ppbv
RT: 14.80 min Scan# 3689
Delta R.T. -0.02 min
Lab File: VL033932.D
Acq: 24 Jun 2019 11:41

Tgt Ion:105 Resp: 3888200
Ion Ratio Lower Upper
105 100
120 25.3 20.3 30.5



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

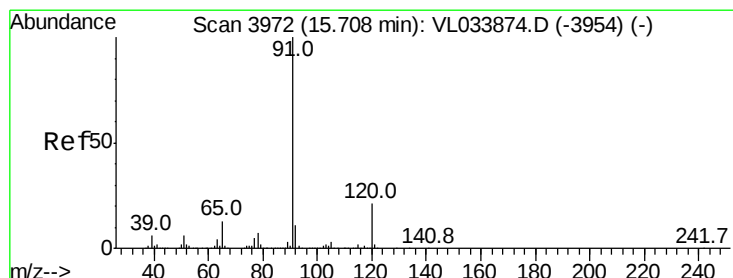
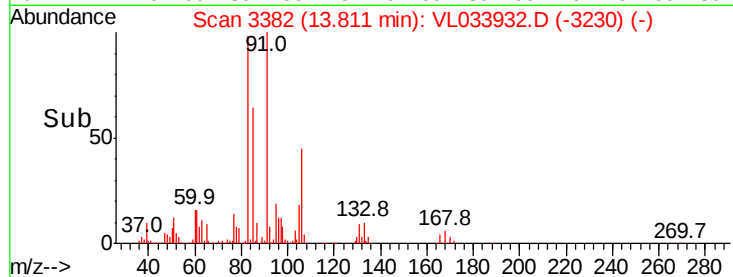
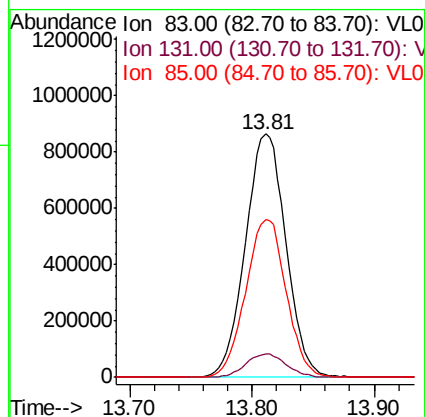
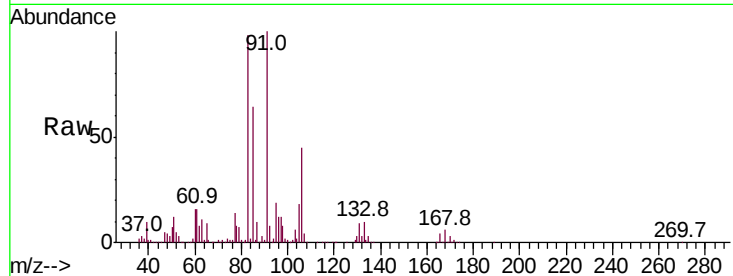




#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.764 ppbv
 RT: 13.81 min Scan# 3382
 Delta R.T. -0.01 min
 Lab File: VL033932.D
 Acq: 24 Jun 2019 11:41

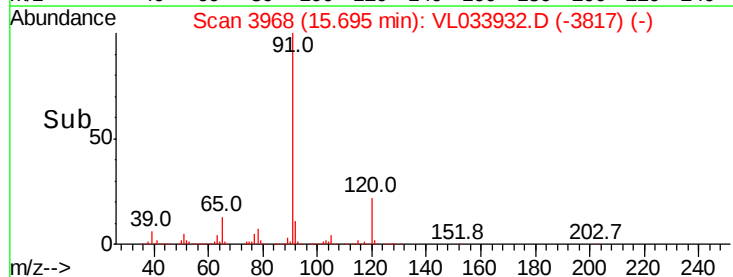
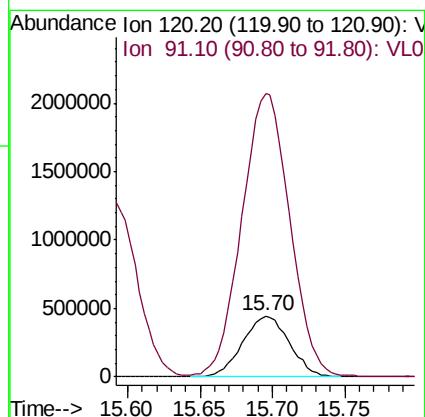
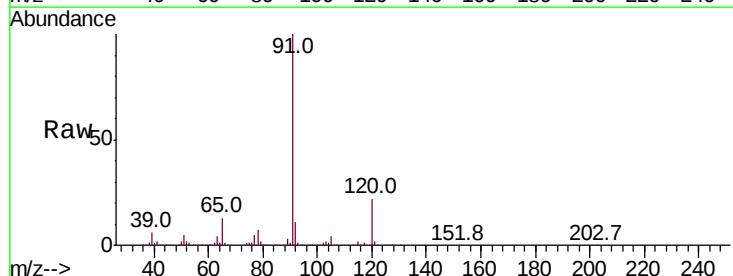
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0624ABS01

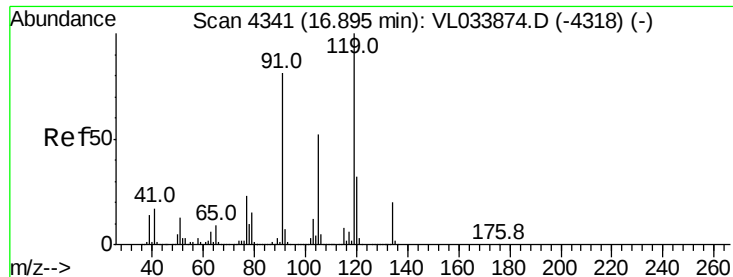
Tot Ion: 83 Resp: 1985119
 Ion Ratio Lower Upper
 83 100
 131 9.7 4.8 14.4
 85 64.7 32.1 96.3



#64
 n-propylbenzene
 Concen: 8.554 ppbv
 RT: 15.70 min Scan# 3968
 Delta R.T. -0.01 min
 Lab File: VL033932.D
 Acq: 24 Jun 2019 11:41

Tgt Ion:120 Resp: 1002766
 Ion Ratio Lower Upper
 120 100
 91 477.9 387.0 580.6





#65

tert-Butylbenzene

Concen: 8.629 ppbv

RT: 16.88 min Scan# 4337

Delta R.T. -0.01 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Instrument :

MSVOA_L

ClientSampleId :

VL0624ABS01

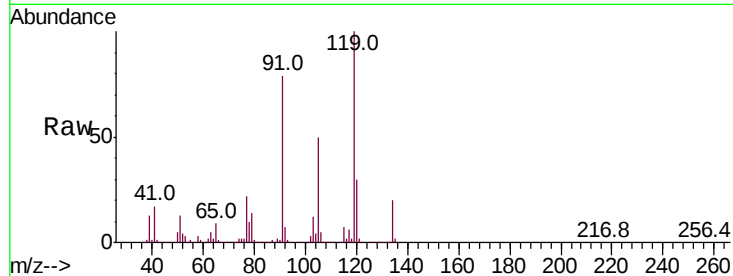
Tot Ion:119 Resp: 3654908

Ion Ratio Lower Upper

119 100

91 82.8 66.6 100.0

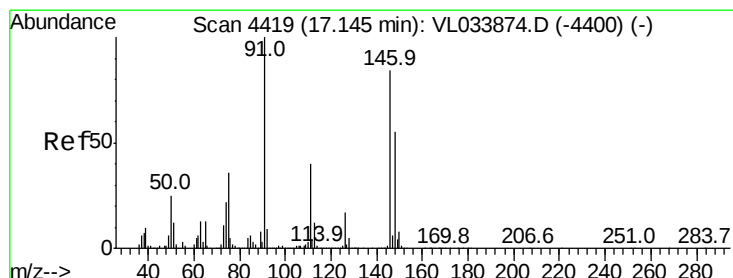
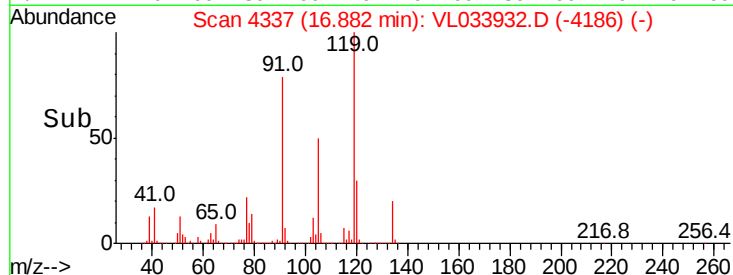
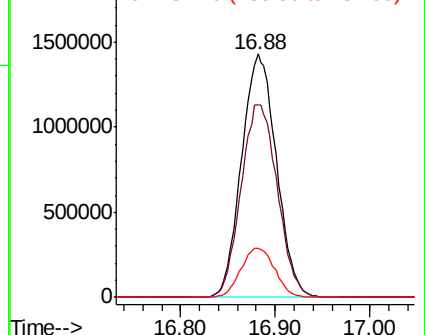
134 19.7 15.5 23.3



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 7.358 ppbv

RT: 17.13 min Scan# 4415

Delta R.T. -0.01 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

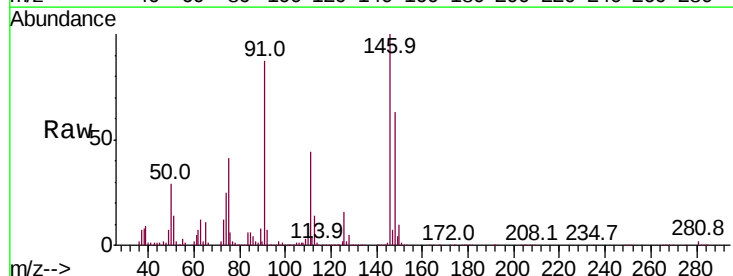
Tgt Ion: 91 Resp: 1579459

Ion Ratio Lower Upper

91 100

126 16.7 13.8 20.6

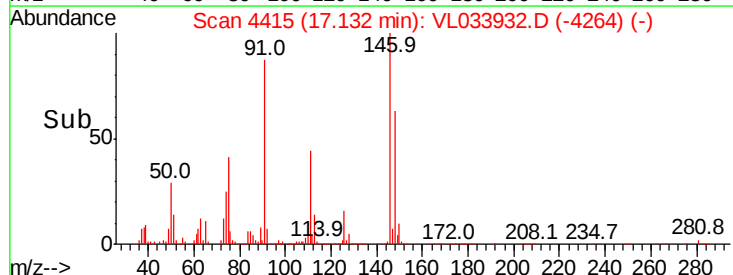
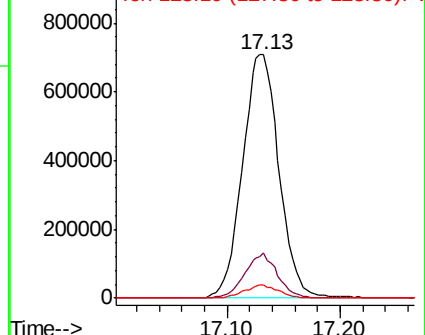
128 5.2 4.4 6.6

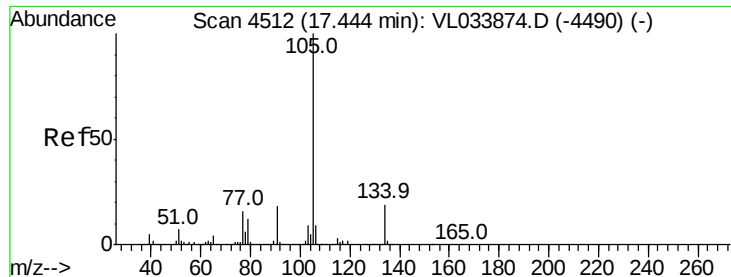


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.600 ppbv

RT: 17.43 min Scan# 4508

Delta R.T. -0.01 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Instrument :

MSVOA_L

ClientSampleId :

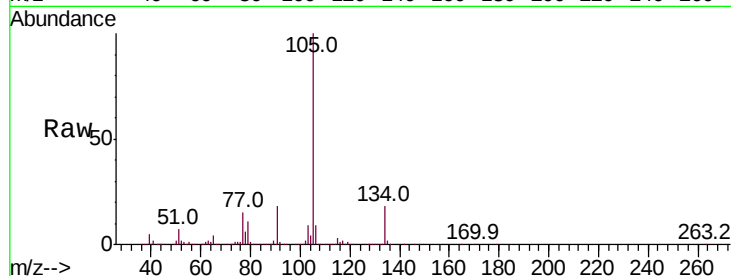
VL0624ABS01

Tot Ion:105 Resp: 5110240

Ion Ratio Lower Upper

105 100

134 18.2 14.6 22.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

2500000

2000000

1500000

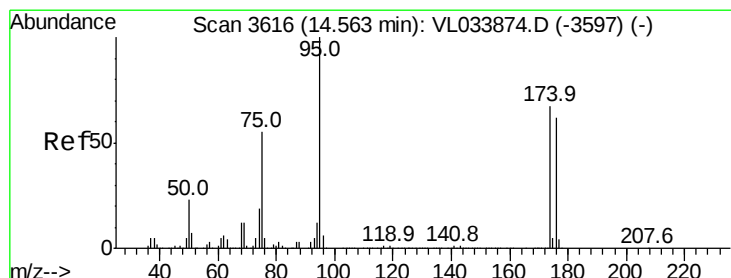
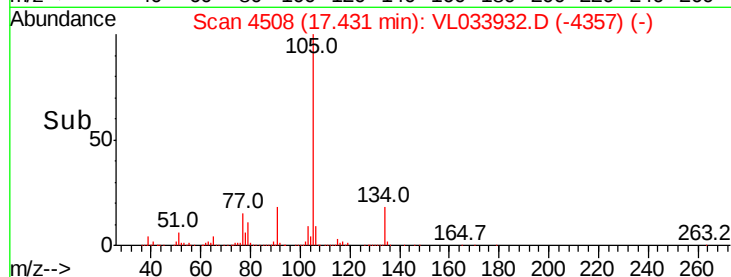
1000000

500000

0

17.30 17.40 17.50

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 8.149 ppbv

RT: 14.55 min Scan# 3612

Delta R.T. -0.01 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

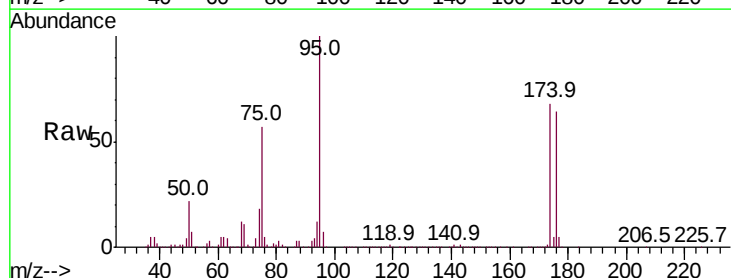
Tgt Ion: 95 Resp: 2147679

Ion Ratio Lower Upper

95 100

174 67.9 54.0 81.0

175 4.9 3.8 5.8



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

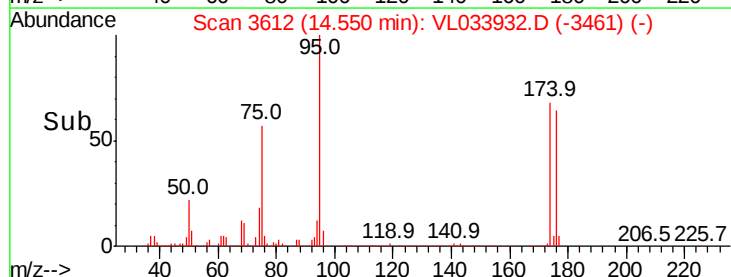
1000000

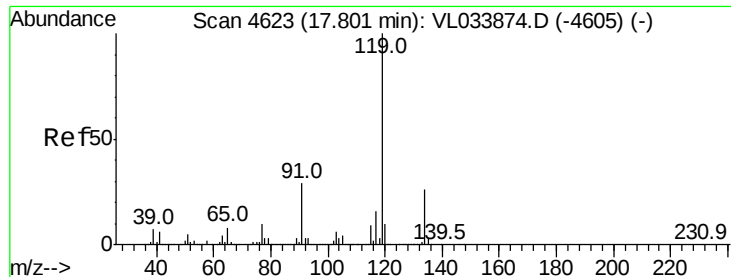
500000

0

14.50 14.55 14.60

Time-->



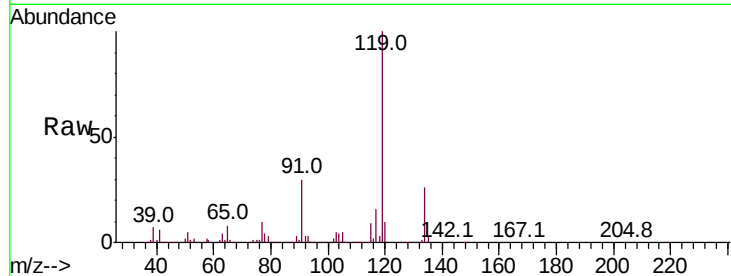


#69
 p-Isopropyltoluene
 Concen: 8.772 ppbv
 RT: 17.79 min Scan# 4619
 Delta R.T. -0.01 min
 Lab File: VL033932.D
 Acq: 24 Jun 2019 11:41

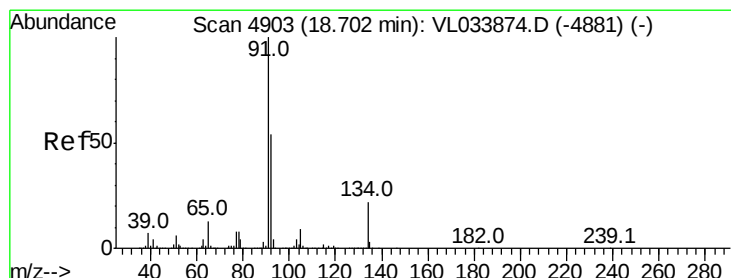
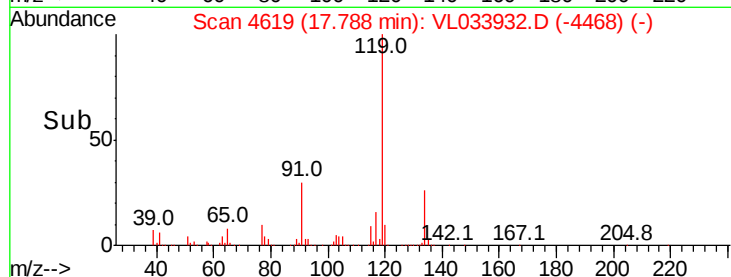
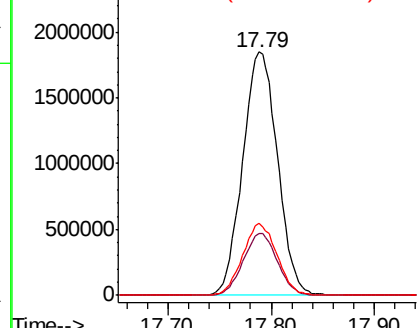
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0624ABS01

Tot Ion:119 Resp: 4337164

Ion	Ratio	Lower	Upper
119	100		
134	25.0	20.3	30.5
91	29.1	23.8	35.6



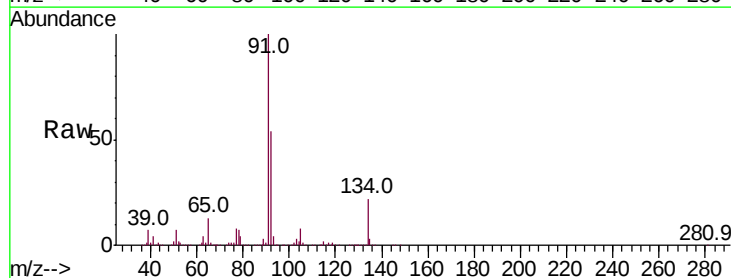
Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V



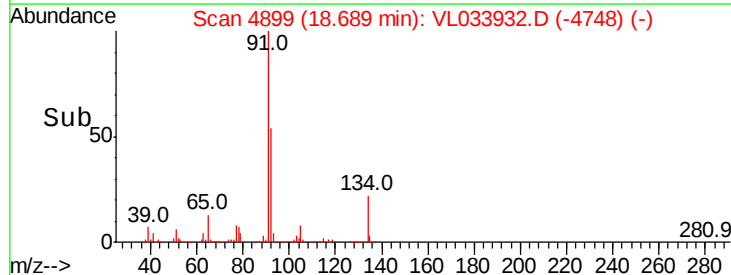
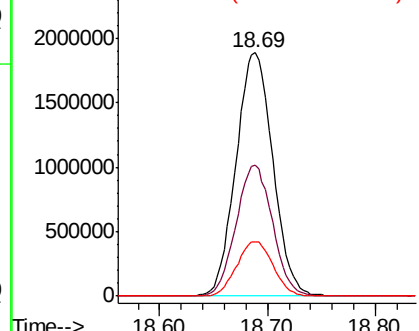
#70
 n-Butylbenzene
 Concen: 8.274 ppbv
 RT: 18.69 min Scan# 4899
 Delta R.T. -0.01 min
 Lab File: VL033932.D
 Acq: 24 Jun 2019 11:41

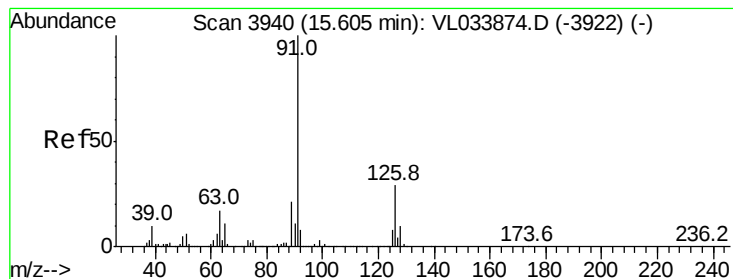
Tgt Ion: 91 Resp: 4480591

Ion	Ratio	Lower	Upper
91	100		
92	53.3	42.5	63.7
134	22.3	17.8	26.6



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 8.800 ppbv

RT: 15.59 min Scan# 3935

Delta R.T. -0.02 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Instrument :

MSVOA_L

ClientSampleId :

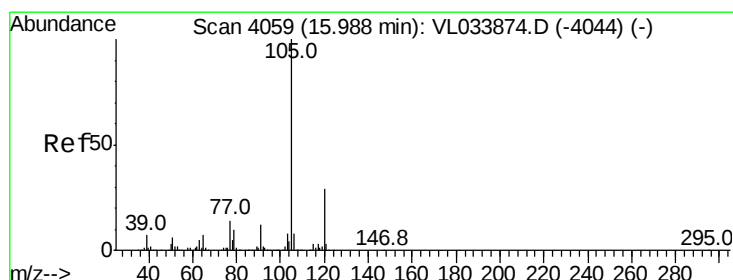
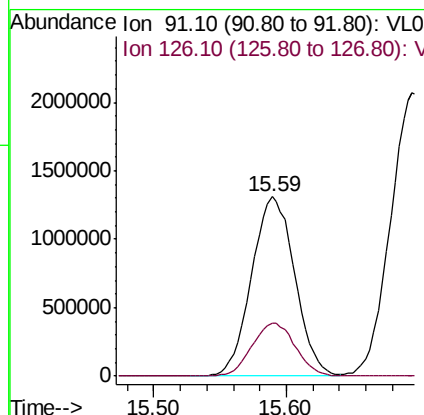
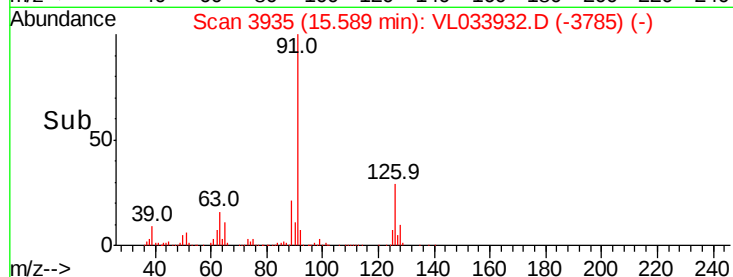
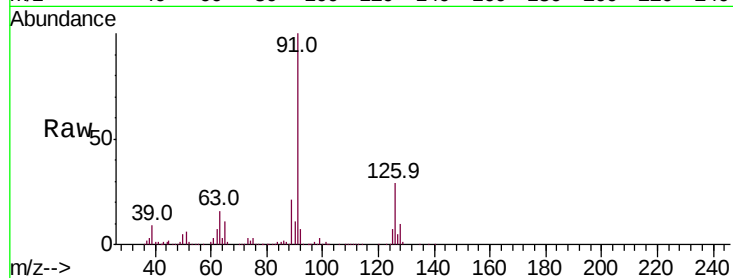
VL0624ABS01

Tot Ion: 91 Resp: 2967911

Ion Ratio Lower Upper

91 100

126 29.9 12.0 48.2



#72

4-Ethyltoluene

Concen: 8.718 ppbv

RT: 15.97 min Scan# 4054

Delta R.T. -0.02 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Tgt Ion:105 Resp: 3369677

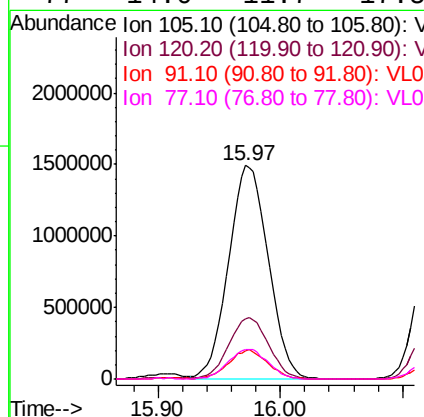
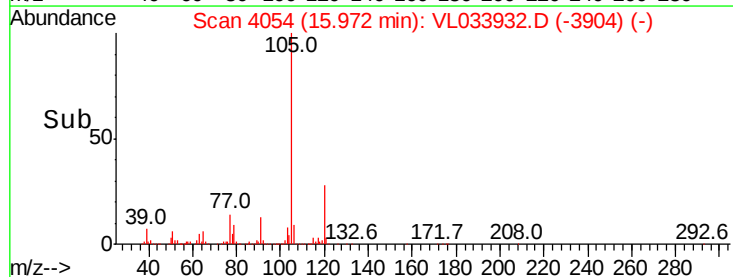
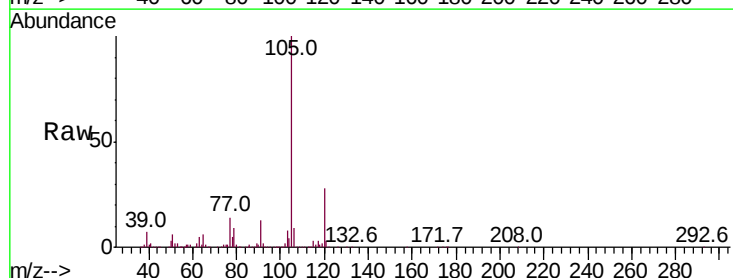
Ion Ratio Lower Upper

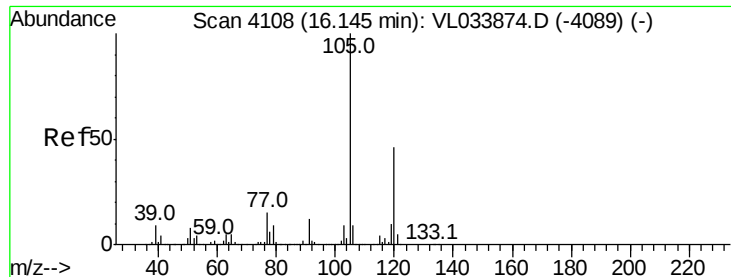
105 100

120 29.5 23.5 35.3

91 13.6 10.4 15.6

77 14.0 11.7 17.5





#73

1,3,5-Trimethylbenzene

Concen: 8.490 ppbv

RT: 16.13 min Scan# 4104

Delta R.T. -0.01 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Instrument :

MSVOA_L

ClientSampleId :

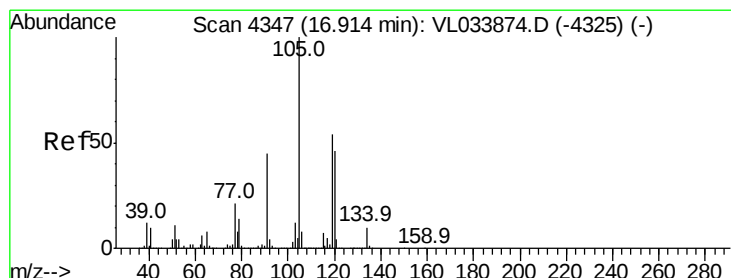
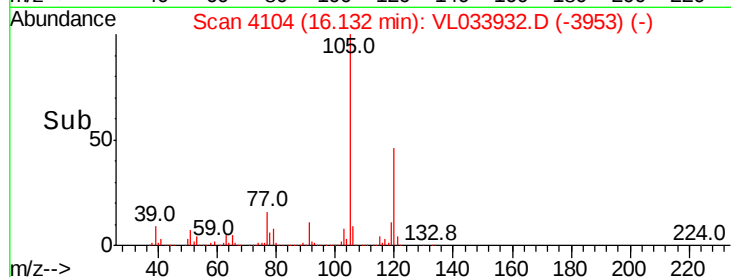
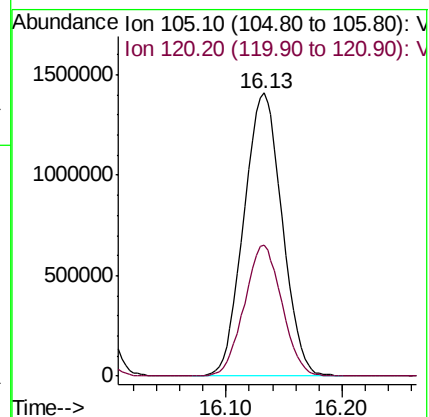
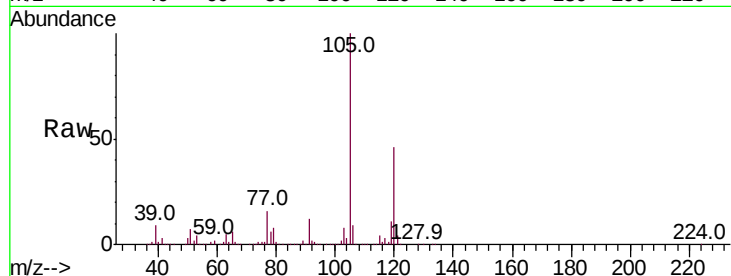
VL0624ABS01

Tot Ion:105 Resp: 3232506

Ion Ratio Lower Upper

105 100

120 46.2 37.1 55.7



#74

1,2,4-Trimethylbenzene

Concen: 7.788 ppbv

RT: 16.90 min Scan# 4343

Delta R.T. -0.01 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Tgt Ion:105 Resp: 3417370

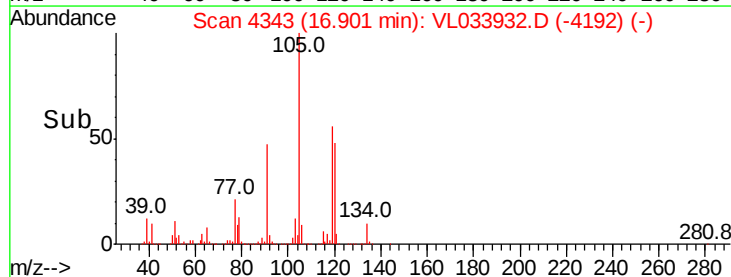
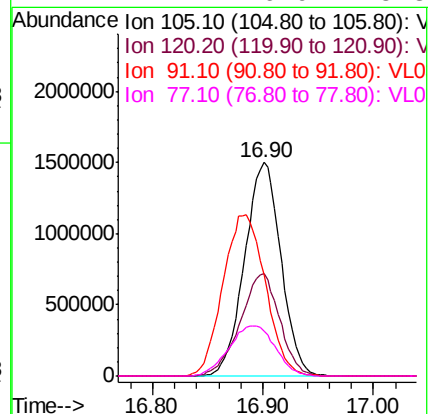
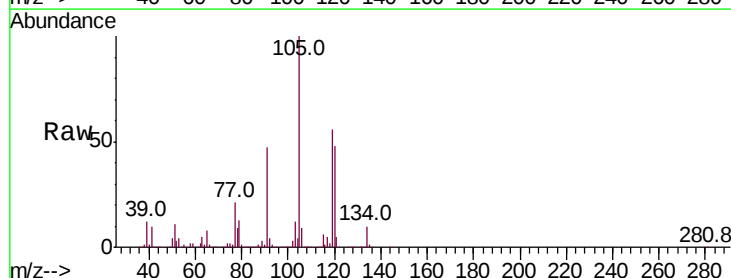
Ion Ratio Lower Upper

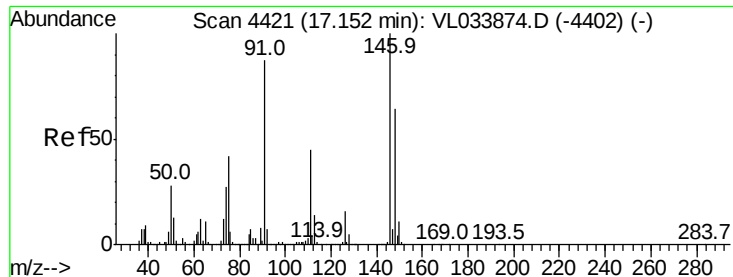
105 100

120 47.9 36.7 55.1

91 47.0 35.8 53.8

77 21.2 16.9 25.3





#75

1,3-Dichlorobenzene

Concen: 7.309 ppbv

RT: 17.14 min Scan# 4416

Delta R.T. -0.02 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Instrument :

MSVOA_L

ClientSampleId :

VL0624ABS01

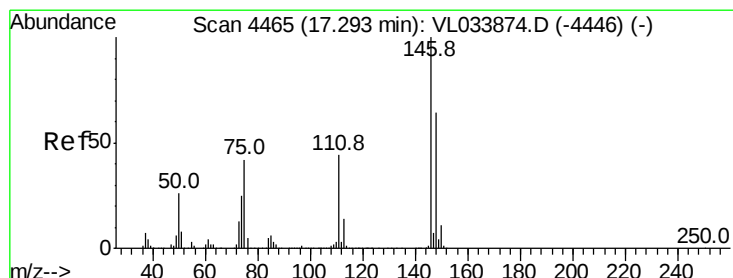
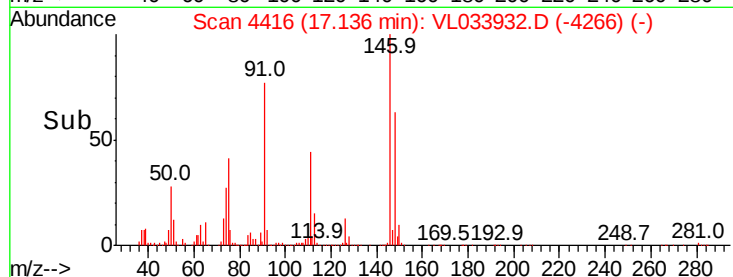
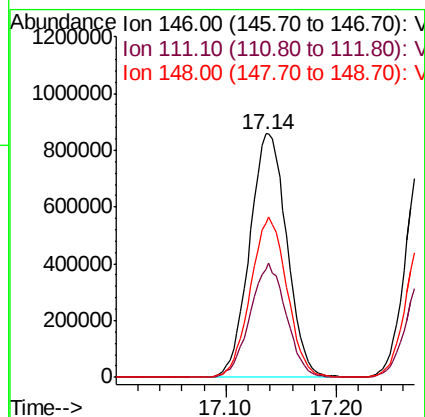
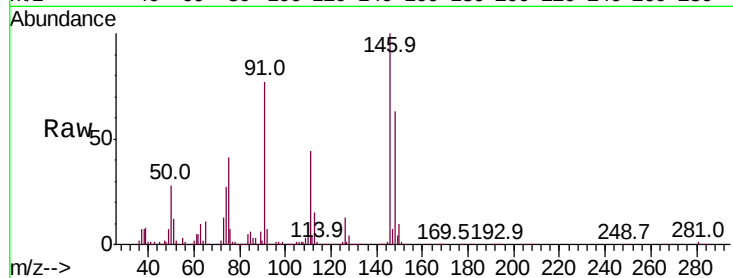
Tot Ion:146 Resp: 2008686

Ion Ratio Lower Upper

146 100

111 45.3 22.8 68.3

148 64.5 32.2 96.6



#76

1,4-Dichlorobenzene

Concen: 7.786 ppbv

RT: 17.28 min Scan# 4462

Delta R.T. -0.01 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

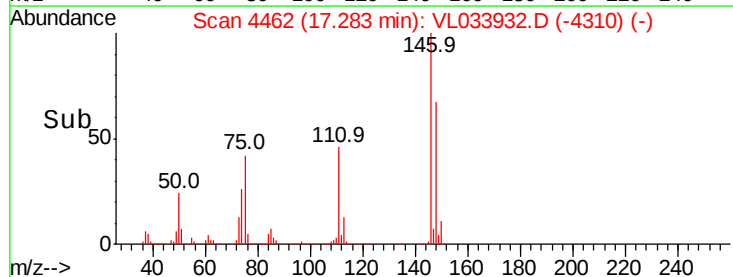
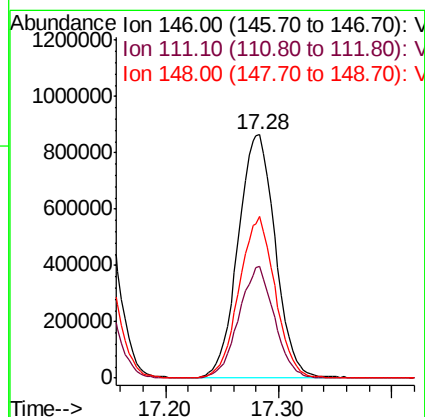
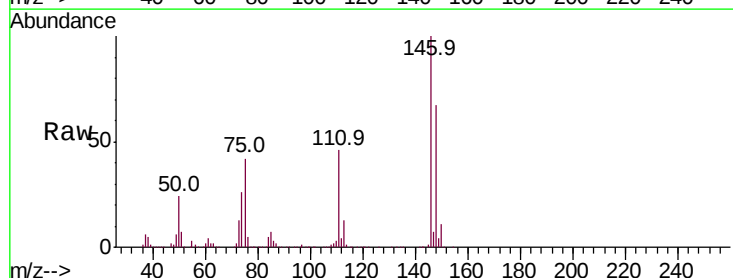
Tgt Ion:146 Resp: 1964485

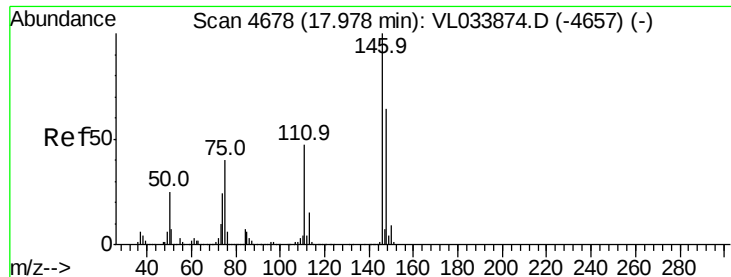
Ion Ratio Lower Upper

146 100

111 44.2 22.1 66.5

148 64.7 32.4 97.0





#77

1,2-Dichlorobenzene

Concen: 7.654 ppbv

RT: 17.96 min Scan# 4672

Delta R.T. -0.02 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

Instrument :

MSVOA_L

ClientSampleId :

VL0624ABS01

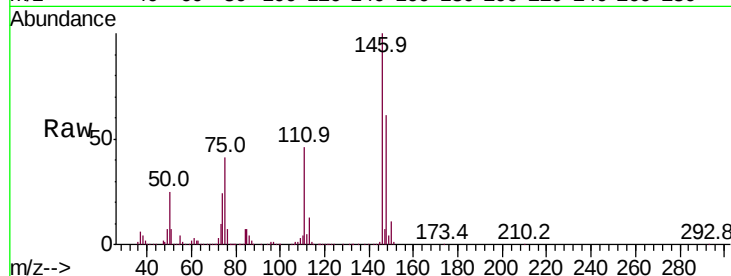
Tot Ion:146 Resp: 1940935

Ion Ratio Lower Upper

146 100

111 46.7 23.4 70.0

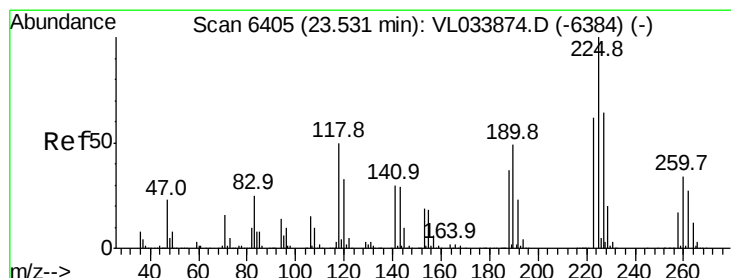
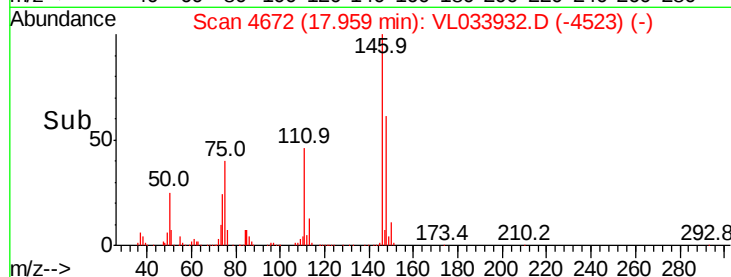
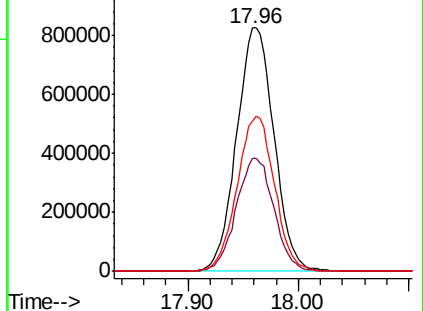
148 63.8 31.8 95.4



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: 7.497 ppbv

RT: 23.51 min Scan# 6400

Delta R.T. -0.02 min

Lab File: VL033932.D

Acq: 24 Jun 2019 11:41

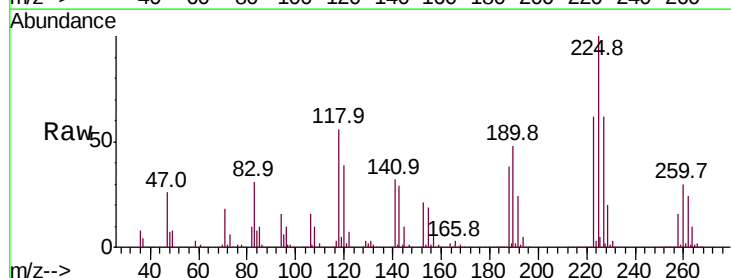
Tgt Ion:225 Resp: 1484996

Ion Ratio Lower Upper

225 100

223 63.1 50.8 76.2

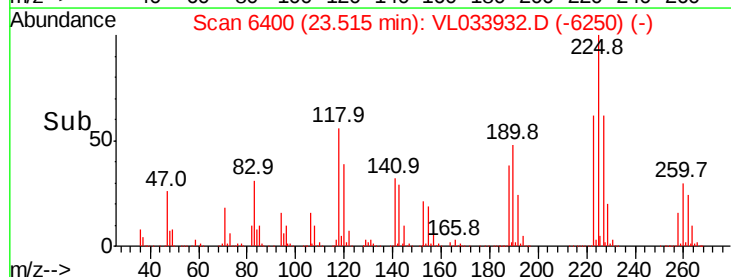
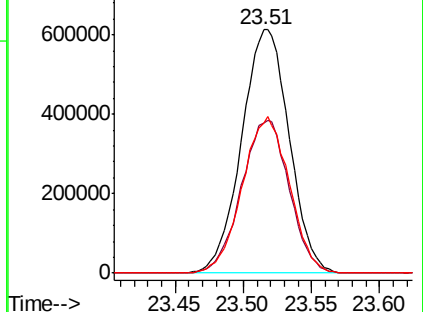
227 63.5 51.8 77.6

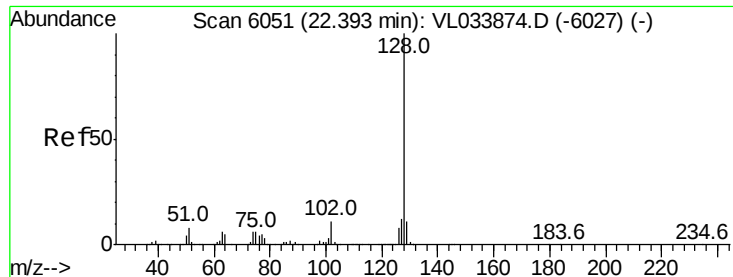


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V

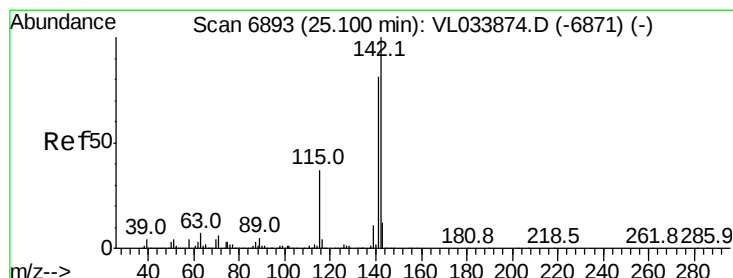
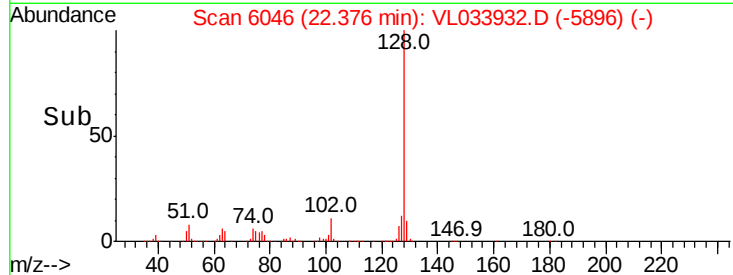
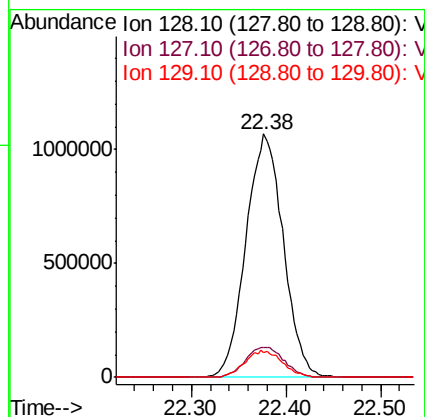
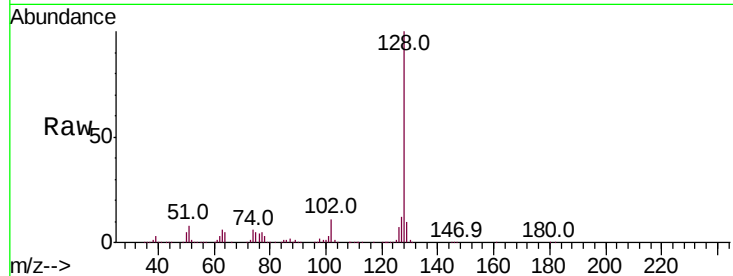




#79
Naphthalene
Concen: 8.332 ppbv
RT: 22.38 min Scan# 6046
Delta R.T. -0.02 min
Lab File: VL033932.D
Acq: 24 Jun 2019 11:41

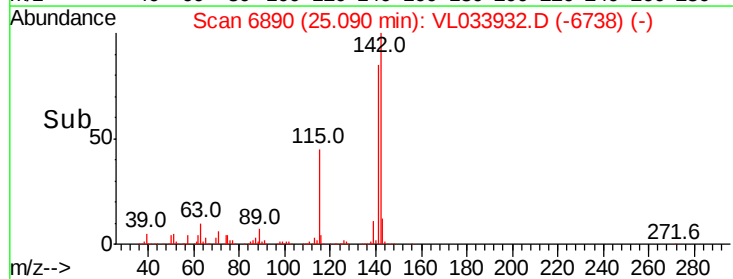
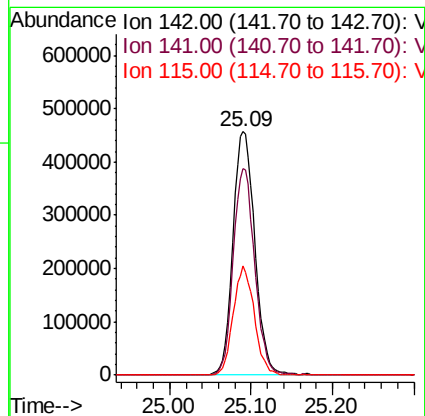
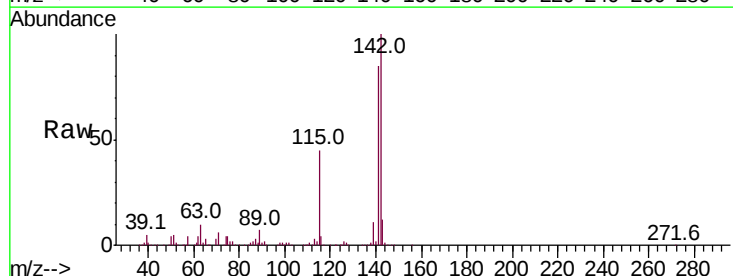
Instrument :
MSVOA_L
ClientSampleId :
VL0624ABS01

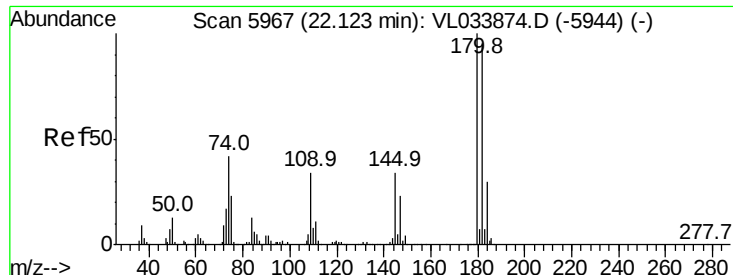
Tot Ion:128 Resp: 2922466
Ion Ratio Lower Upper
128 100
127 12.2 9.7 14.5
129 10.2 8.6 12.8



#80
Naphthalene, 2-methyl-
Concen: 6.196 ppbv
RT: 25.09 min Scan# 6890
Delta R.T. -0.01 min
Lab File: VL033932.D
Acq: 24 Jun 2019 11:41

Tgt Ion:142 Resp: 867060
Ion Ratio Lower Upper
142 100
141 83.4 65.7 98.5
115 43.0 28.9 43.3





#81
 1,2,4-Trichlorobenzene
 Concen: 7.379 ppbv
 RT: 22.10 min Scan# 5961
 Delta R.T. -0.02 min
 Lab File: VL033932.D
 Acq: 24 Jun 2019 11:41

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0624ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.9	115.3
184	30.6	24.5	36.7

