

Data File : VL033302.D
Acq On : 13 Mar 2019 18:27
Operator : SY/AP
Sample : VSTDIC0.5
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Quant Time: Mar 13 20:11:30 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031319AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 13 17:31:13 2019
QLast Update : Wed Mar 13 17:31:13 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	778677	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1754371	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1954820	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1547546	10.25	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.50%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.07	85	93191	0.593	ppbv	97
3) Chlorodifluoromethane	3.02	51	55121	0.534	ppbv	99
4) Chloromethane	3.17	50	29711	0.538	ppbv #	88
5) Vinyl Chloride	3.29	62	26331	0.488	ppbv #	88
6) Bromomethane	3.52	94	18130	0.550	ppbv	88
7) Chloroethane	3.60	64	10600	0.544	ppbv	92
8) Dichlorotetrafluoroethane	3.22	85	72229	0.543	ppbv	100
9) Propene	3.04	41	23941	0.508	ppbv	100
10) Heptane	8.24	43	52726	0.497	ppbv	98
11) Trichlorofluoromethane	4.01	101	76590	0.492	ppbv	86
12) 1,1,2-Trichlorotrifluoroet	4.55	101	52301	0.587	ppbv	98
13) Ethanol	3.66	45	7216	0.502	ppbv #	62
14) Bromoethene	3.79	108	20043	0.482	ppbv	95
15) Acetone	3.91	43	61638	0.516	ppbv	98
16) 1,3-Butadiene	3.36	39	24996	0.580	ppbv	98
17) tert-Butyl alcohol	4.35	59	1296	0.081	ppbv #	74
18) 1,1-Dichloroethene	4.34	96	9166	0.232	ppbv	91
19) Isopropyl Alcohol	4.04	45	37741	0.523	ppbv #	95
20) Methylene Chloride	4.41	84	24357	0.613	ppbv	96
21) Allyl Chloride	4.48	41	33310	0.561	ppbv	96
22) trans-1,2-Dichloroethene	4.96	96	22040	0.524	ppbv	90
23) Vinyl Acetate	5.15	43	73825	0.493	ppbv #	94
24) 1,1-Dichloroethane	5.09	63	57819	0.533	ppbv	99
25) Ethyl Acetate	5.77	43	101639	0.552	ppbv	99
26) Hexane	5.78	57	47736	0.553	ppbv	94
27) Carbon Disulfide	4.62	76	43758	0.477	ppbv #	89
28) Methyl tert-Butyl Ether	5.12	73	63552	0.518	ppbv	97
29) Chloroform	5.84	83	74320	0.565	ppbv	95
30) Cyclohexane	7.24	84	16577	0.247	ppbv #	1
31) cis-1,2-Dichloroethene	5.64	61	42609	0.514	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	66649	0.520	ppbv	96
34) 2-Butanone	5.34	43	61316	0.529	ppbv	98
35) Carbon Tetrachloride	7.13	117	65152	0.508	ppbv	99
36) Benzene	7.00	78	51118	0.316	ppbv	96
37) 1,2-Dichloroethane	6.41	62	55214	0.569	ppbv	99
38) Trichloroethene	7.96	130	32985	0.523	ppbv	95
39) 1,2-Dichloropropane	7.73	63	34736	0.571	ppbv	94
40) 1,4-Dioxane	7.99	88	5344	0.233	ppbv #	1
41) Tetrahydrofuran	6.17	42	17107	0.266	ppbv #	41
42) Bromodichloromethane	7.91	83	68963	0.516	ppbv	96
43) Methyl Methacrylate	8.14	69	20133	0.319	ppbv #	30

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031319AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 13 17:31:13 2019
QLast Update : Wed Mar 13 17:31:13 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	149287	0.543	ppbv	96
45) t-1,3-Dichloropropene	9.41	75	31354	0.404	ppbv	99
46) cis-1,3-Dichloropropene	8.83	75	41795	0.460	ppbv	95
47) 1,1,2-Trichloroethane	9.61	97	35429	0.545	ppbv	98
48) Dibromochloromethane	10.44	129	52310	0.491	ppbv	99
49) Bromoform	13.20	173	30195	0.349	ppbv #	70
50) 4-Methyl-2-Pentanone	8.89	43	85149	0.514	ppbv	98
51) 2-Hexanone	10.29	43	24422	0.193	ppbv #	29
52) Tetrachloroethene	11.37	164	19679	0.332	ppbv	93
53) Toluene	9.94	91	92288	0.495	ppbv	99
54) 1,2-Dibromoethane	10.76	107	58185	0.582	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.27	131	20352	0.245	ppbv #	1
57) Chlorobenzene	12.30	112	88110	0.598	ppbv	99
58) Ethyl Benzene	12.86	91	139206	0.518	ppbv	99
59) m/p-Xylene	13.15	91	46755	0.208	ppbv #	100
60) o-Xylene	13.84	91	117357	0.543	ppbv	97
61) Styrene	13.68	104	72529	0.472	ppbv	98
62) Isopropylbenzene	14.83	105	166183	0.552	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.83	83	82944	0.573	ppbv	100
64) n-propylbenzene	15.72	120	21409	0.289	ppbv #	1
65) tert-Butylbenzene	16.90	119	129666	0.510	ppbv	96
66) Benzyl Chloride	17.15	91	31971	0.325	ppbv #	95
67) sec-Butylbenzene	17.45	105	94783	0.262	ppbv #	60
69) p-Isopropyltoluene	17.81	119	147048	0.503	ppbv	98
70) n-Butylbenzene	18.71	91	150935	0.481	ppbv	98
71) 2-Chlorotoluene	15.61	91	120226	0.530	ppbv	97
72) 4-Ethyltoluene	16.00	105	112392	0.482	ppbv	97
73) 1,3,5-Trimethylbenzene	16.16	105	107219	0.488	ppbv	93
74) 1,2,4-Trimethylbenzene	16.92	105	110402	0.493	ppbv #	91
75) 1,3-Dichlorobenzene	17.16	146	45817	0.341	ppbv #	38
76) 1,4-Dichlorobenzene	17.30	146	43224	0.326	ppbv #	24
77) 1,2-Dichlorobenzene	17.99	146	56438	0.423	ppbv	75
78) Hexachloro-1,3-Butadiene	23.54	225	28520	0.256	ppbv #	19
79) Naphthalene	22.40	128	17447	0.072	ppbv	99
81) 1,2,4-Trichlorobenzene	22.13	180	14804	0.116	ppbv #	12

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

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ClientSampleId :
VSTDICC0.5

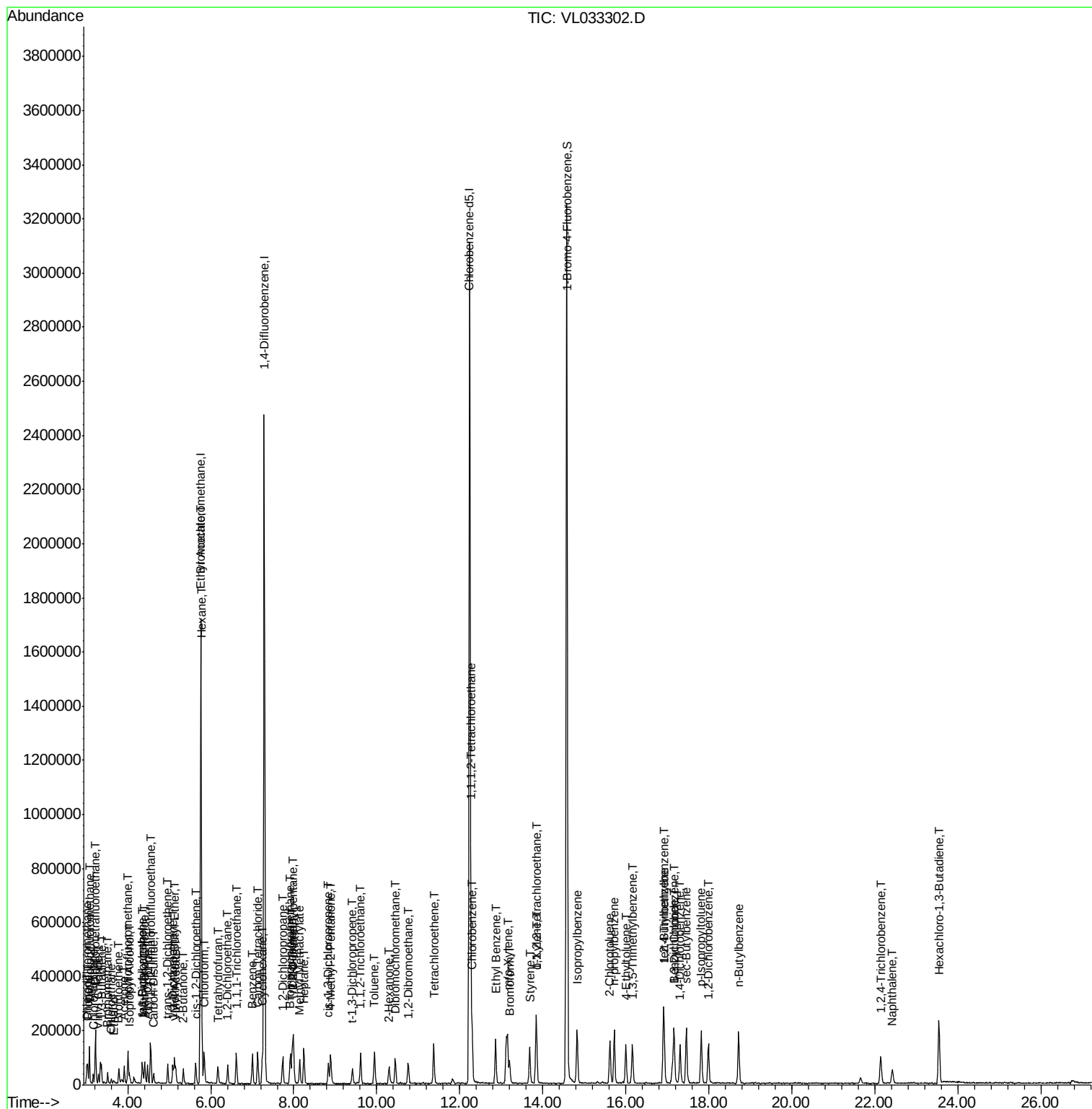
Quant Time: Mar 13 20:11:30 2019

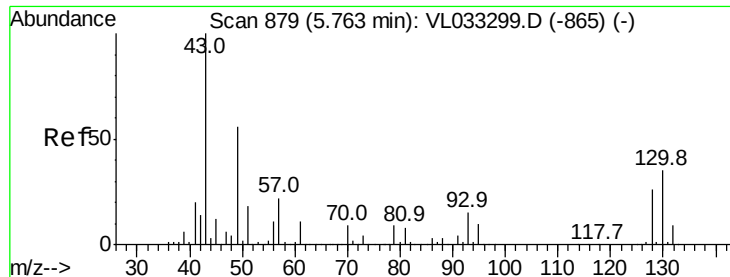
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_L\METHODS\VL031319AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Mar 13 17:31:13 2019

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

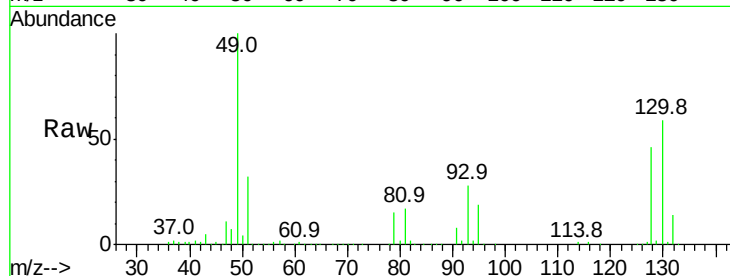
Tgt Ion: 49 Resp: 778677

Ion Ratio Lower Upper

49 100

128 46.9 23.4 70.3

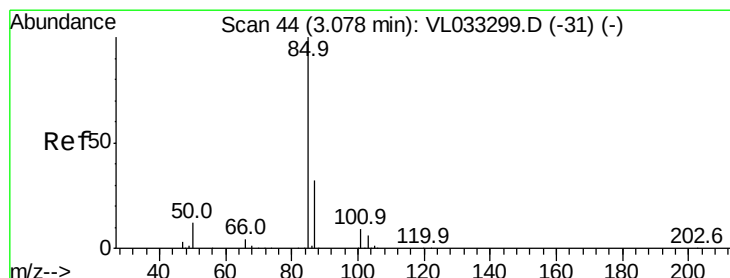
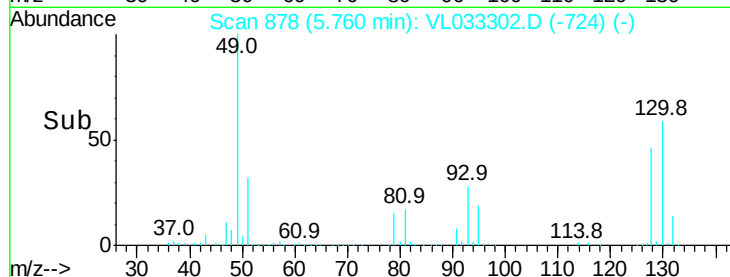
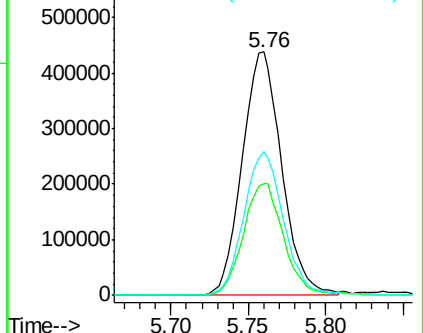
130 59.7 29.9 89.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.593 ppbv

RT: 3.07 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033302.D

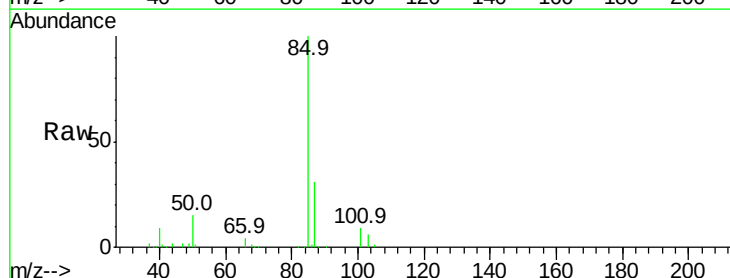
Acq: 13 Mar 2019 18:27

Tgt Ion: 85 Resp: 93191

Ion Ratio Lower Upper

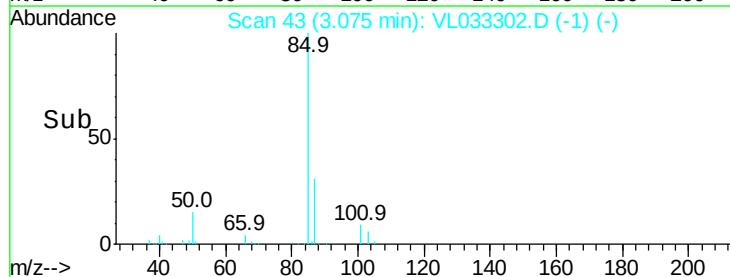
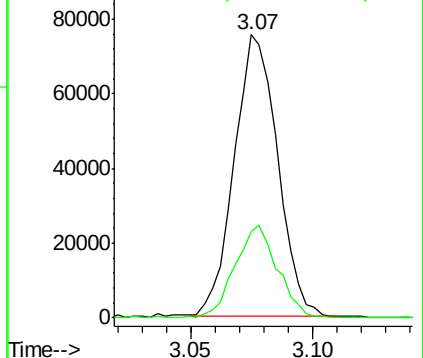
85 100

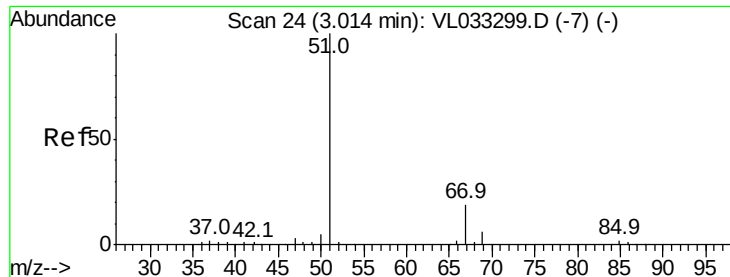
87 30.6 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.534 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

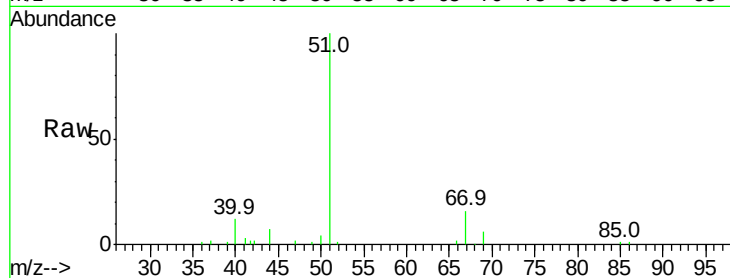
VSTDIC0.5

Tgt Ion: 51 Resp: 55121

Ion Ratio Lower Upper

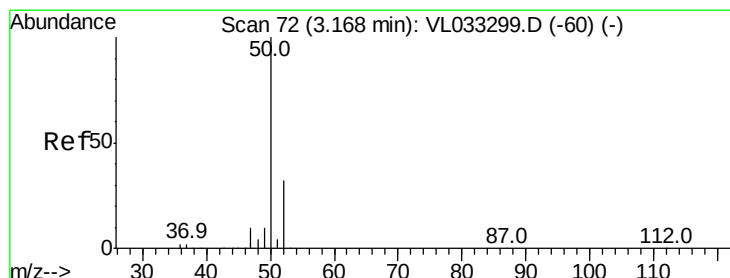
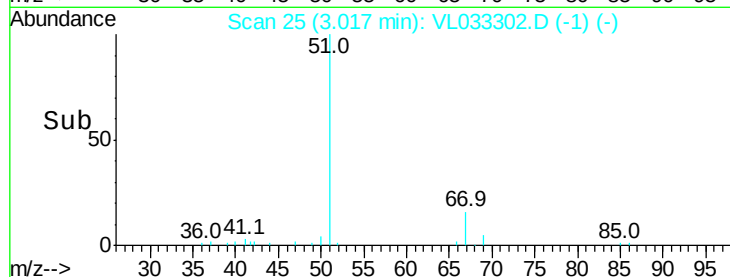
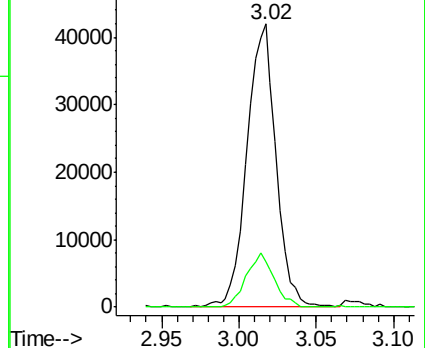
51 100

67 18.1 14.9 22.3



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.538 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033302.D

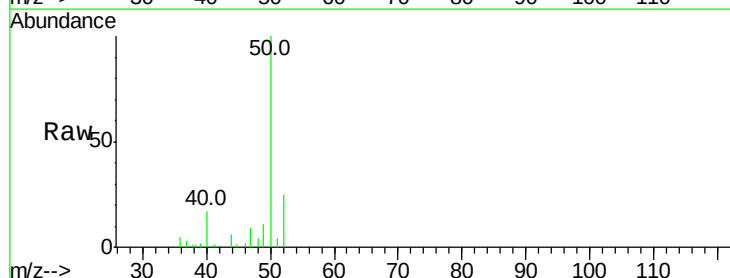
Acq: 13 Mar 2019 18:27

Tgt Ion: 50 Resp: 29711

Ion Ratio Lower Upper

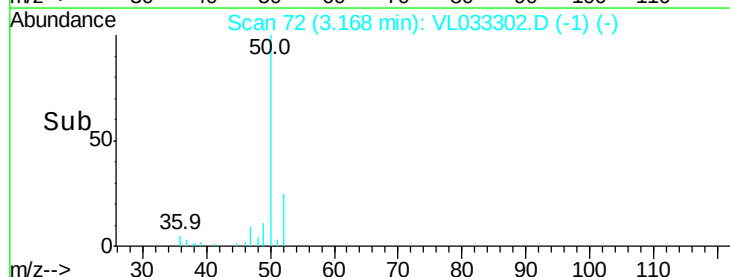
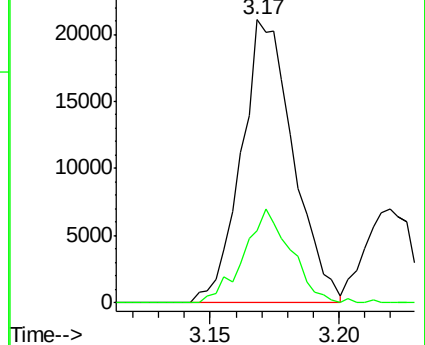
50 100

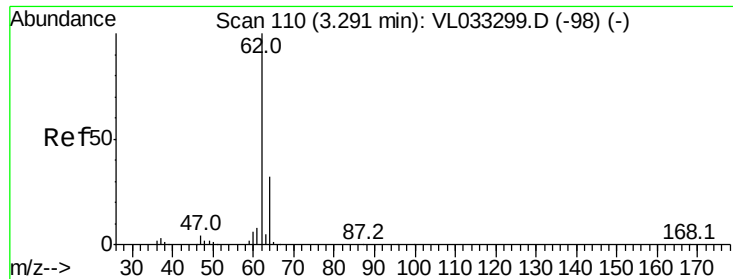
52 25.5 25.7 38.5#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.488 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

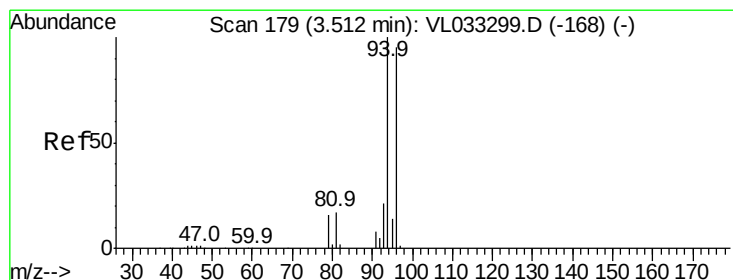
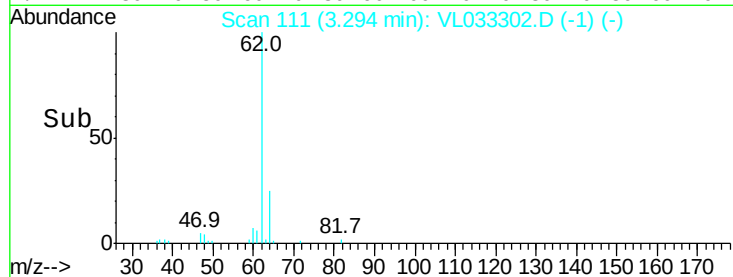
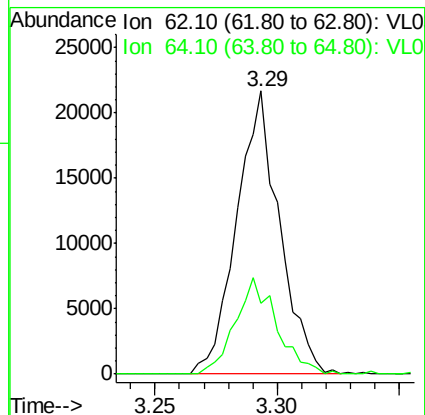
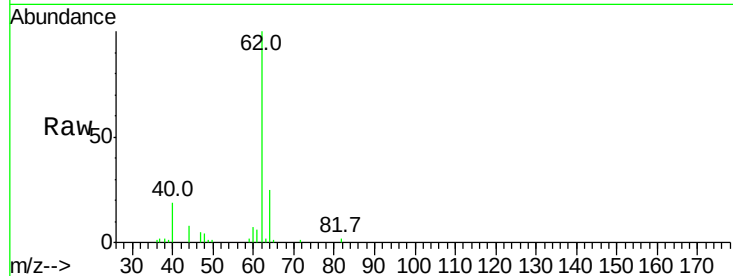
VSTDIC0.5

Tgt Ion: 62 Resp: 26331

Ion Ratio Lower Upper

62 100

64 25.0 25.5 38.3#



#6

Bromomethane

Concen: 0.550 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033302.D

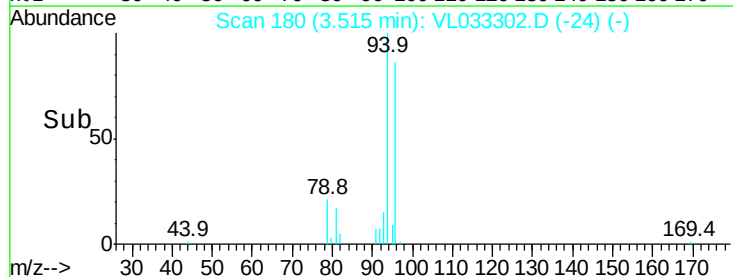
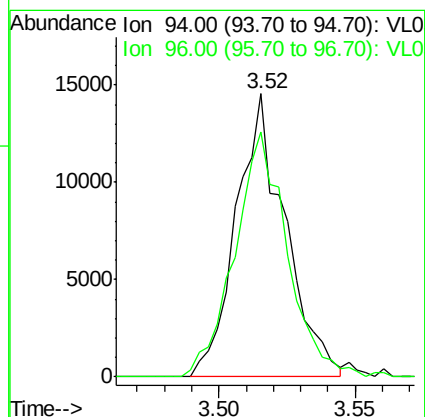
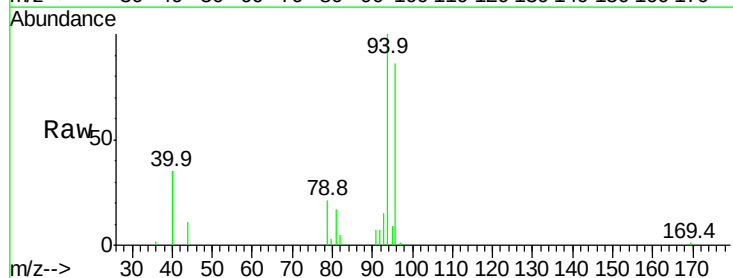
Acq: 13 Mar 2019 18:27

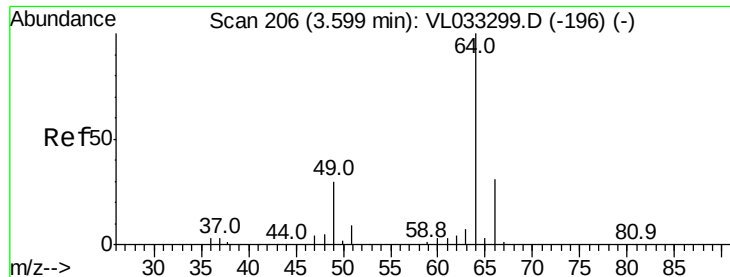
Tgt Ion: 94 Resp: 18130

Ion Ratio Lower Upper

94 100

96 83.9 76.2 114.4





#7

Chloroethane

Concen: 0.544 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

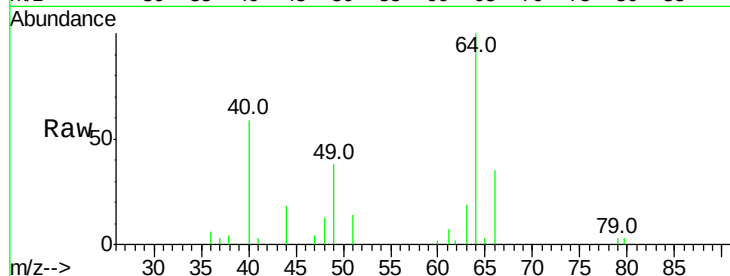
VSTDIC0.5

Tgt Ion: 64 Resp: 10600

Ion Ratio Lower Upper

64 100

66 35.5 24.9 37.3



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.60

8000

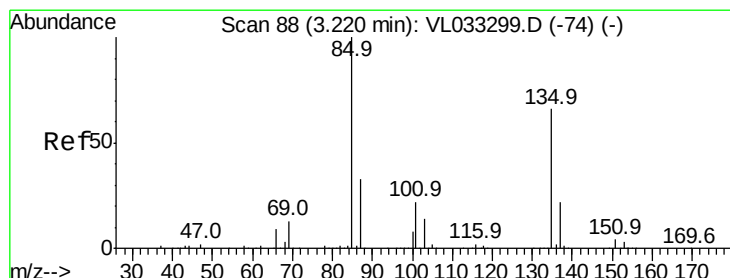
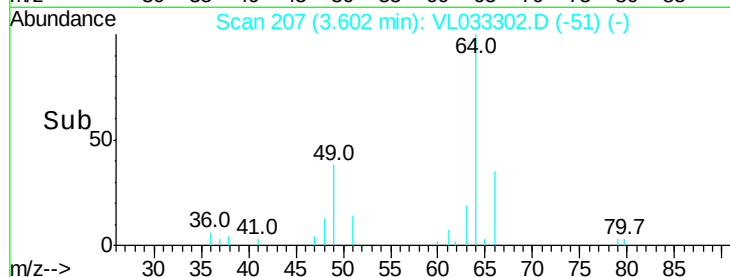
6000

4000

2000

0

Time--> 3.55 3.60 3.65



#8

Dichlorotetrafluoroethane

Concen: 0.543 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033302.D

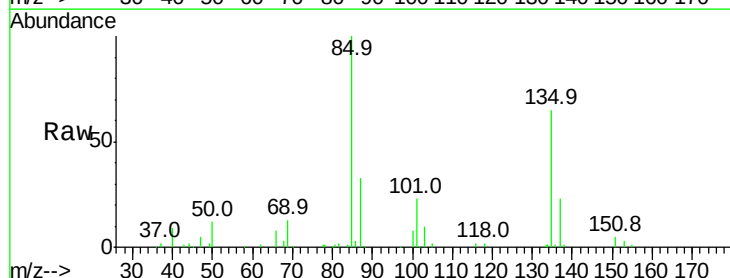
Acq: 13 Mar 2019 18:27

Tgt Ion: 85 Resp: 72229

Ion Ratio Lower Upper

85 100

135 65.8 52.9 79.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.22

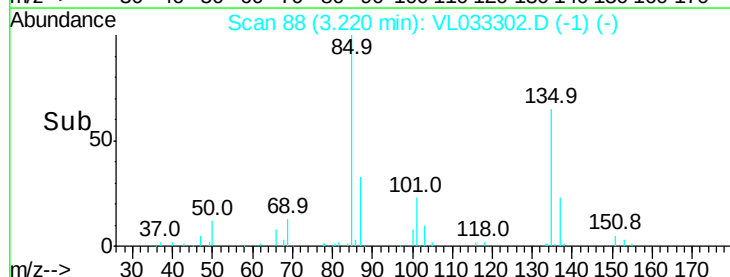
60000

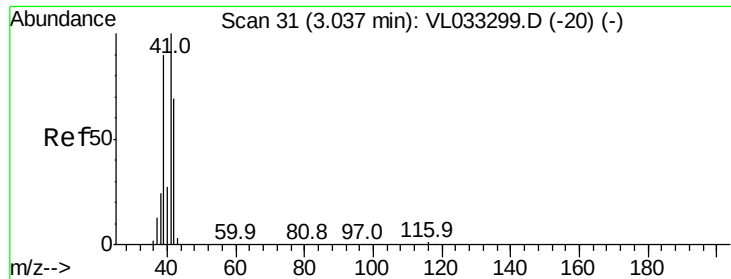
40000

20000

0

Time--> 3.15 3.20 3.25





#9

Propene

Concen: 0.508 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

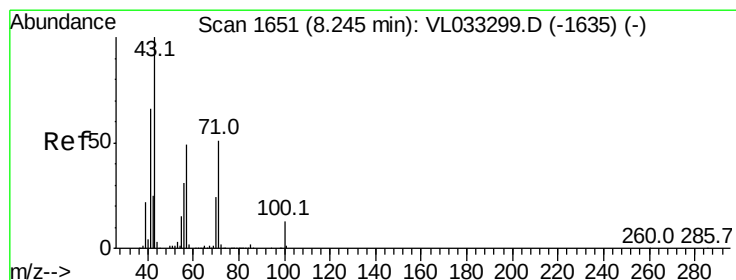
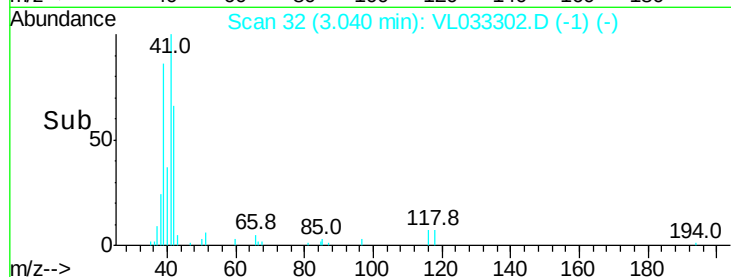
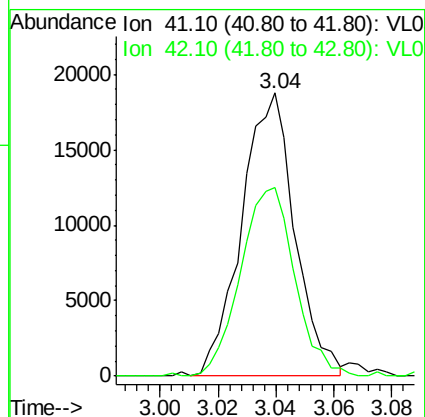
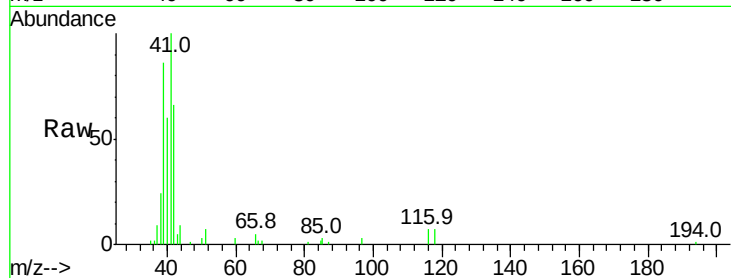
VSTDIC0.5

Tgt Ion: 41 Resp: 23941

Ion Ratio Lower Upper

41 100

42 68.4 54.4 81.6



#10

Heptane

Concen: 0.497 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VL033302.D

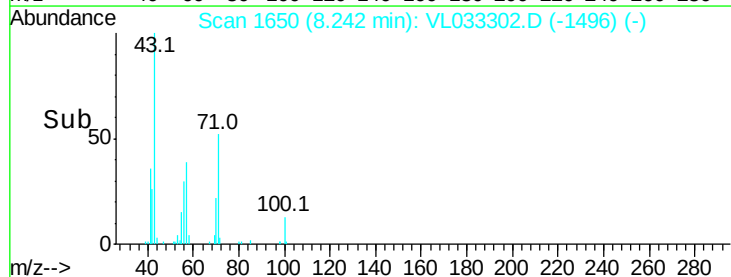
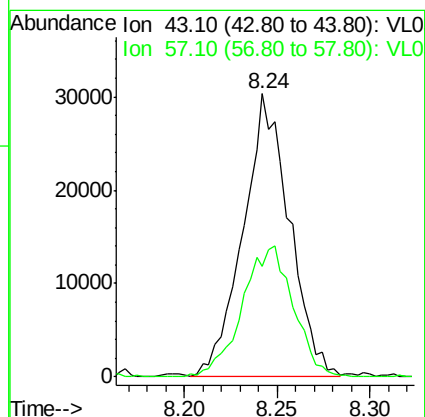
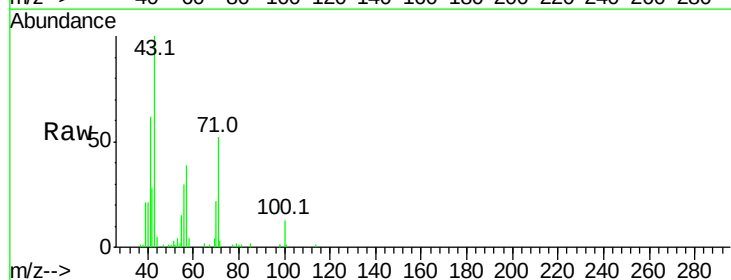
Acq: 13 Mar 2019 18:27

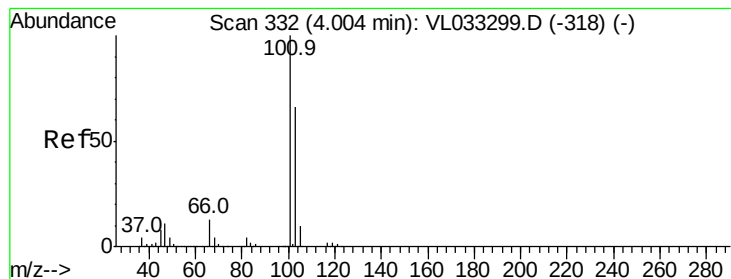
Tgt Ion: 43 Resp: 52726

Ion Ratio Lower Upper

43 100

57 50.7 39.6 59.4





#11

Trichlorofluoromethane

Concen: 0.492 ppbv

RT: 4.01 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

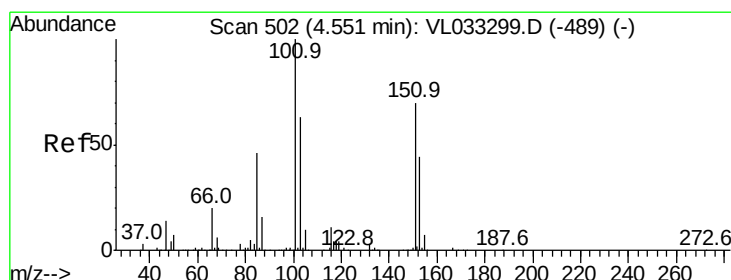
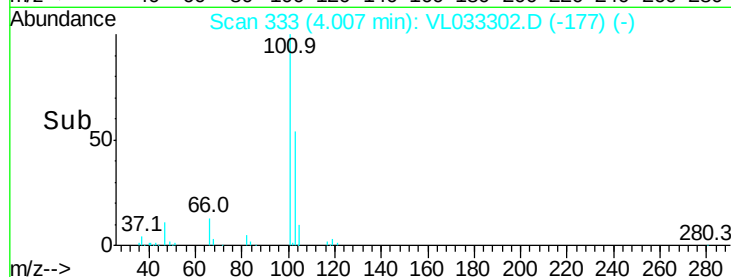
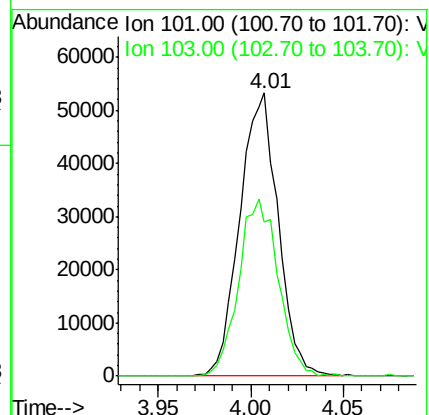
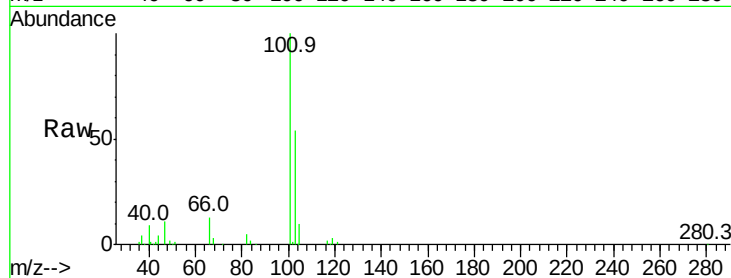
VSTDIC0.5

Tgt Ion:101 Resp: 76590

Ion Ratio Lower Upper

101 100

103 54.4 52.5 78.7



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.587 ppbv

RT: 4.55 min Scan# 502

Delta R.T. -0.00 min

Lab File: VL033302.D

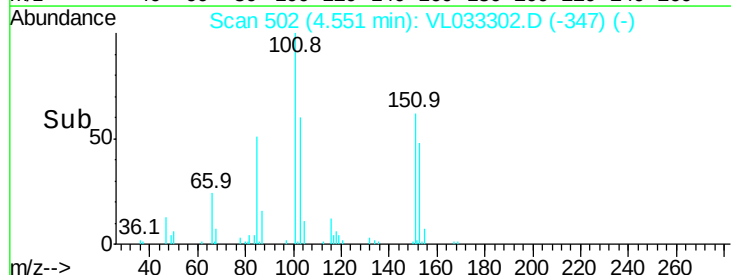
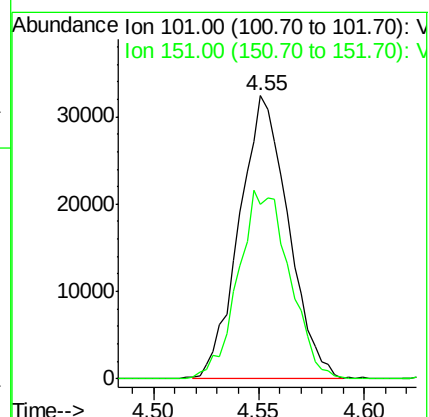
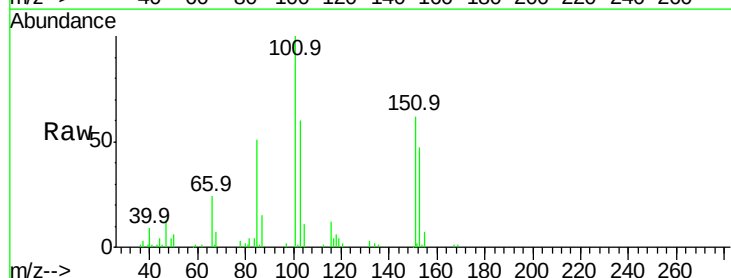
Acq: 13 Mar 2019 18:27

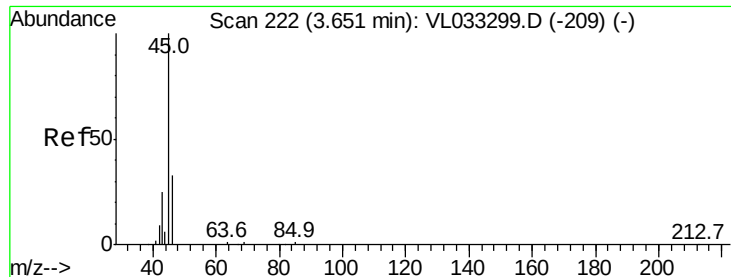
Tgt Ion:101 Resp: 52301

Ion Ratio Lower Upper

101 100

151 69.7 57.2 85.8

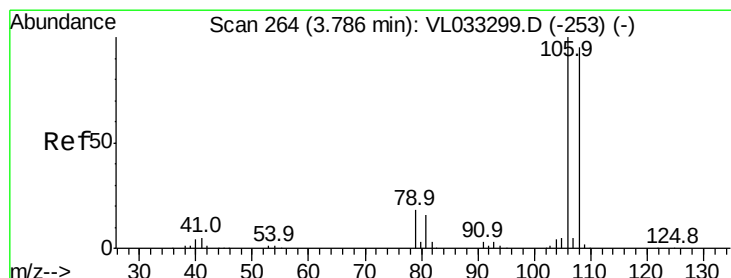
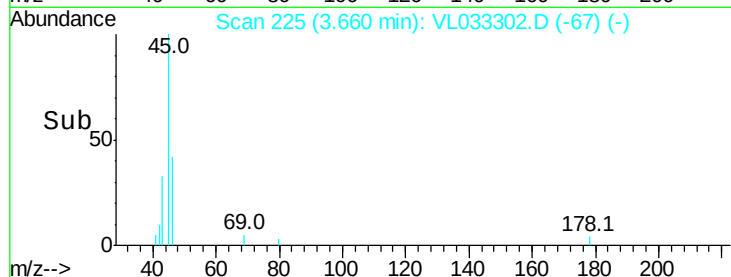
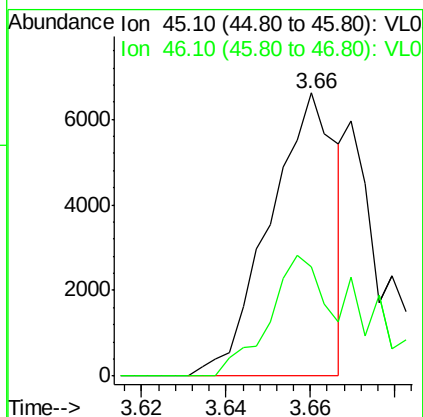
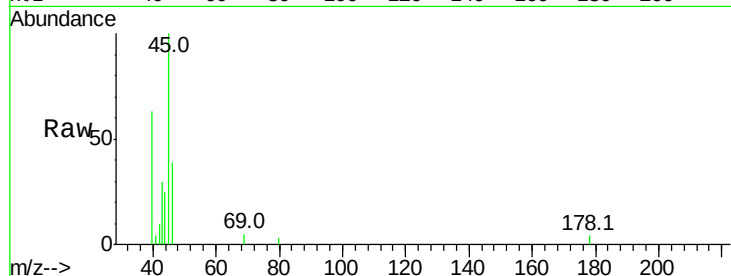




#13
Ethanol
Concen: 0.502 ppbv
RT: 3.66 min Scan# 225
Delta R.T. 0.01 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

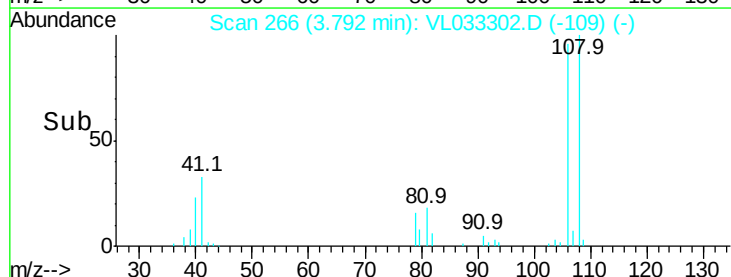
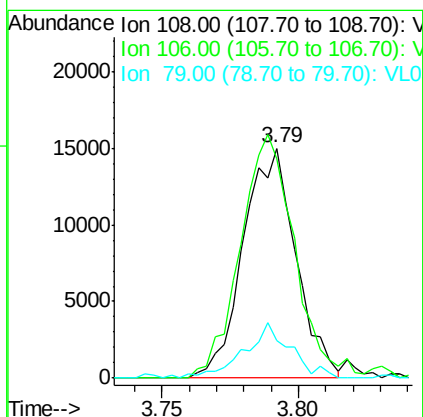
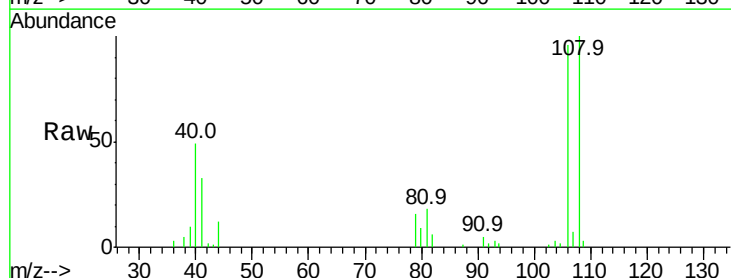
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

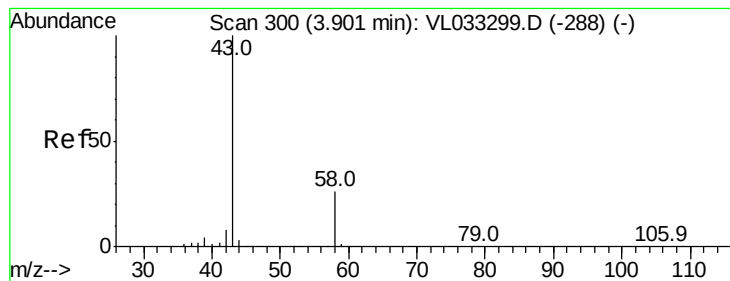
Tgt Ion: 45 Resp: 7216
Ion Ratio Lower Upper
45 100
46 59.8 14.9 59.5#



#14
Bromoethene
Concen: 0.482 ppbv
RT: 3.79 min Scan# 266
Delta R.T. 0.01 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Tgt Ion: 108 Resp: 20043
Ion Ratio Lower Upper
108 100
106 111.6 85.1 127.7
79 21.9 15.0 22.6





#15

Acetone

Concen: 0.516 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.01 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

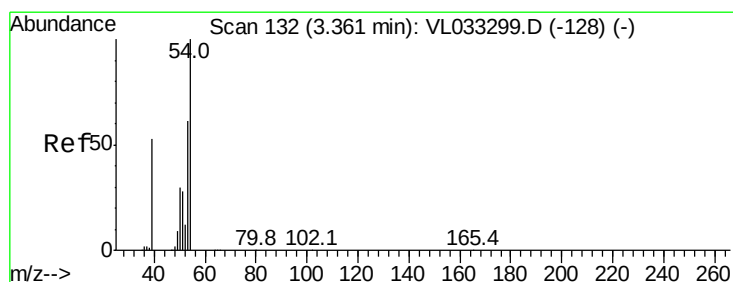
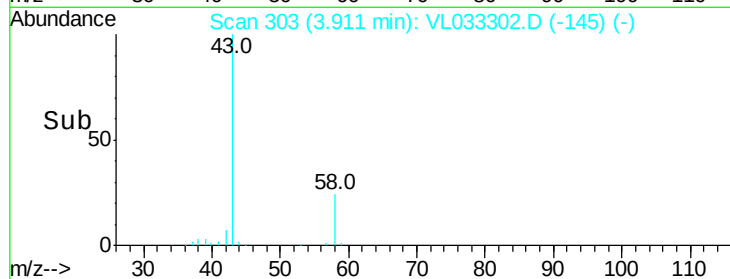
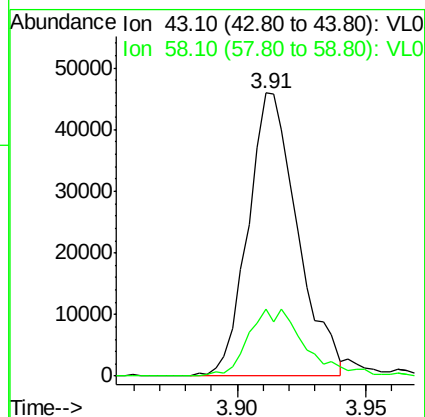
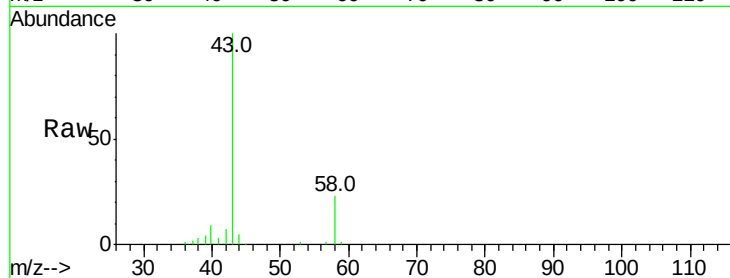
VSTDIC0.5

Tgt Ion: 43 Resp: 61638

Ion Ratio Lower Upper

43 100

58 27.0 20.6 31.0



#16

1,3-Butadiene

Concen: 0.580 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL033302.D

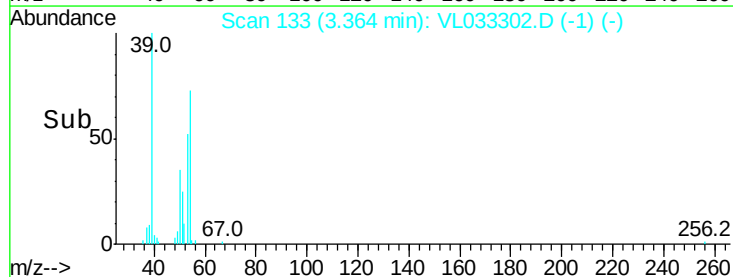
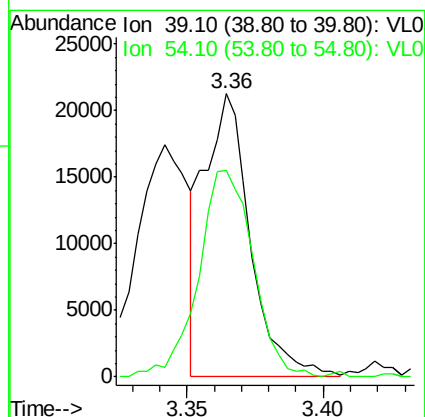
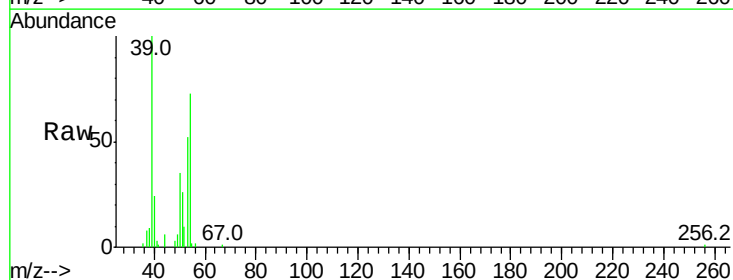
Acq: 13 Mar 2019 18:27

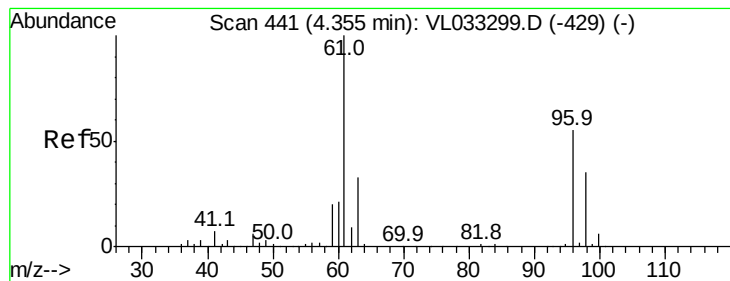
Tgt Ion: 39 Resp: 24996

Ion Ratio Lower Upper

39 100

54 87.0 68.4 102.6





#17

tert-Butyl alcohol

Concen: 0.081 ppbv

RT: 4.35 min Scan# 440

Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

ClientSampled :

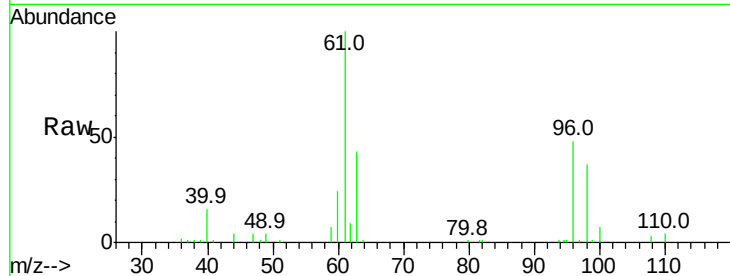
VSTDIC0.5

Tgt Ion: 59 Resp: 1296

Ion Ratio Lower Upper

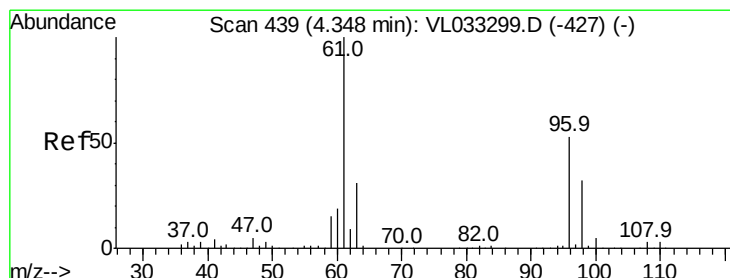
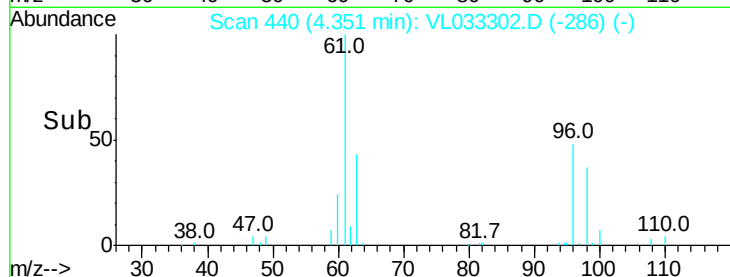
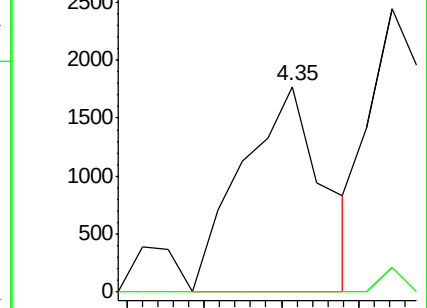
59 100

57 0.0 7.4 11.2#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 0.232 ppbv

RT: 4.34 min Scan# 438

Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

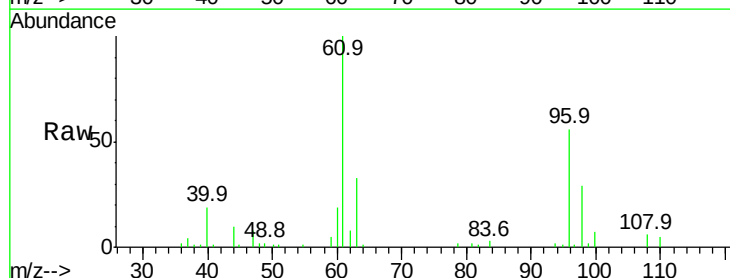
Tgt Ion: 96 Resp: 9166

Ion Ratio Lower Upper

96 100

61 178.3 152.3 228.5

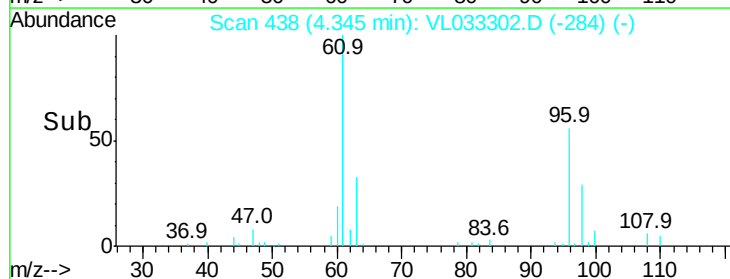
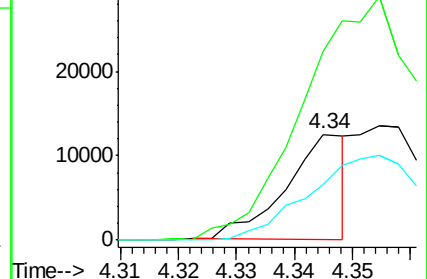
98 51.8 48.6 72.8

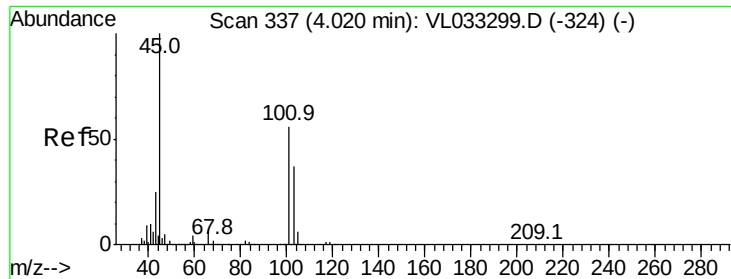


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

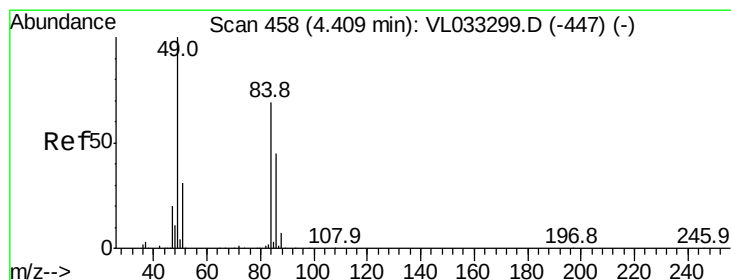
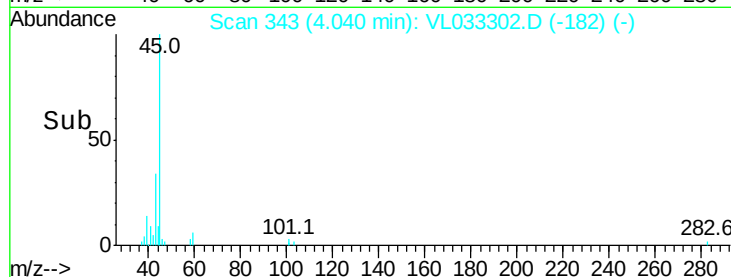
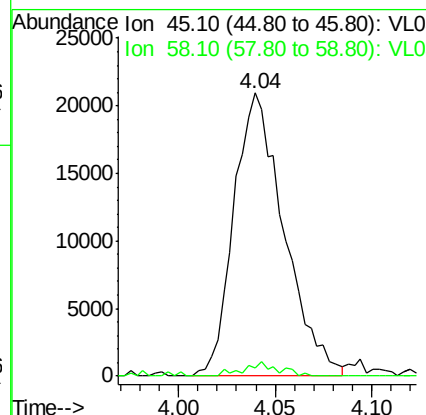
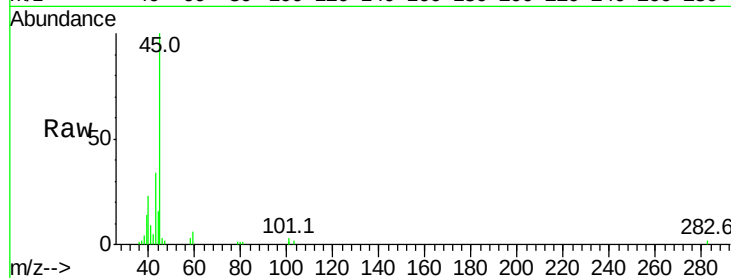




#19
Isopropyl Alcohol
Concen: 0.523 ppbv
RT: 4.04 min Scan# 343
Delta R.T. 0.02 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

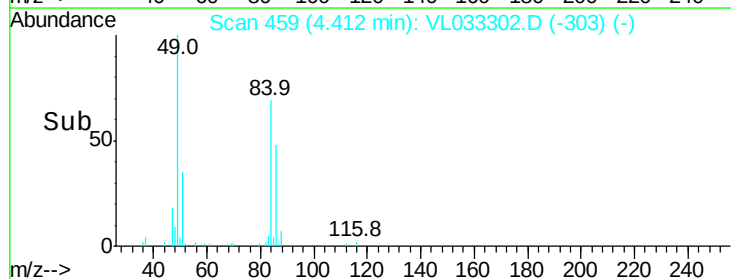
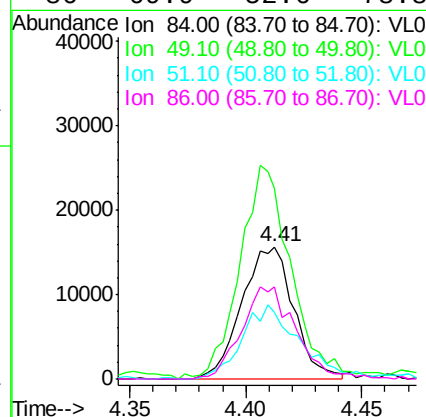
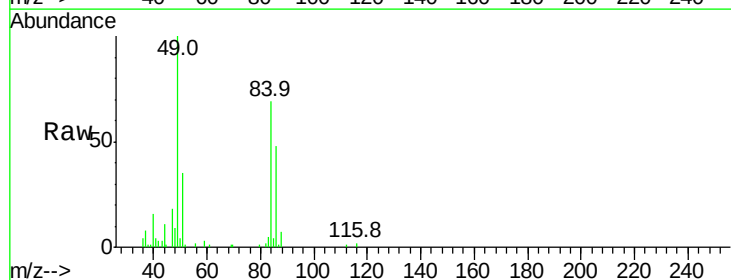
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

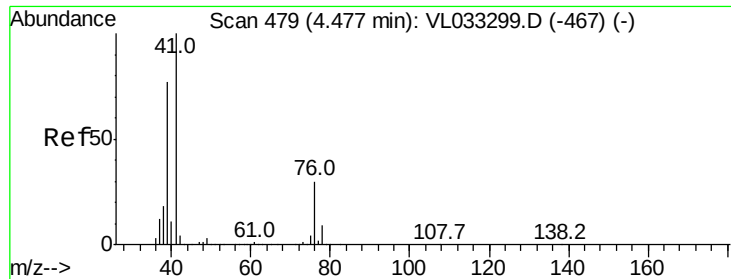
Tgt Ion: 45 Resp: 37741
Ion Ratio Lower Upper
45 100
58 3.4 1.4 2.0#



#20
Methylene Chloride
Concen: 0.613 ppbv
RT: 4.41 min Scan# 459
Delta R.T. 0.00 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Tgt Ion: 84 Resp: 24357
Ion Ratio Lower Upper
84 100
49 142.3 115.4 173.2
51 52.3 35.7 53.5
86 69.9 52.6 78.8





#21

Allyl Chloride

Concen: 0.561 ppbv

RT: 4.48 min Scan# 479

Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

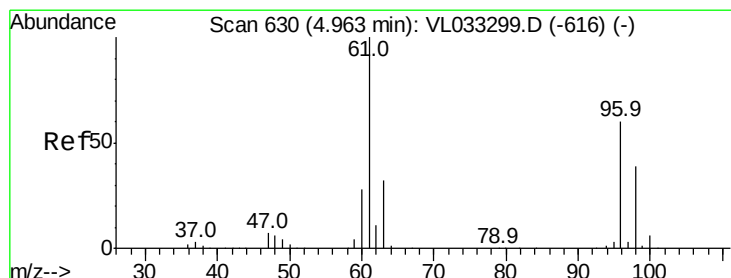
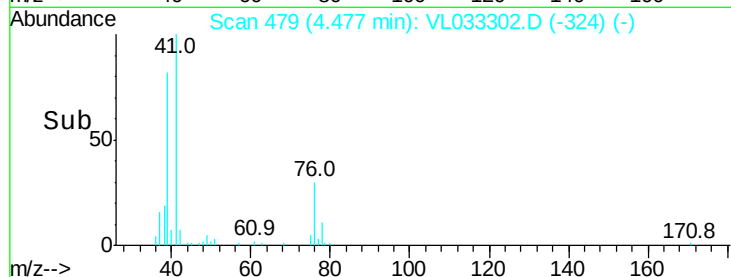
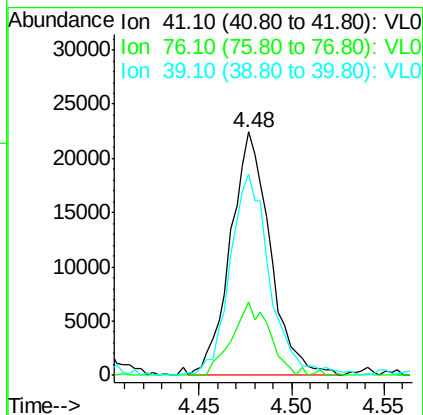
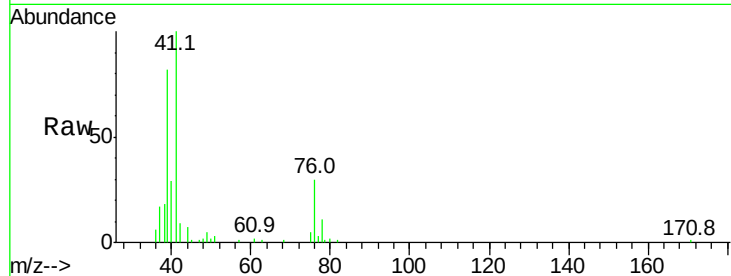
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:	41	Resp:	33310
Ion	Ratio	Lower	Upper
41	100		
76	28.7	24.3	36.5
39	84.0	64.4	96.6



#22

trans-1,2-Dichloroethene

Concen: 0.524 ppbv

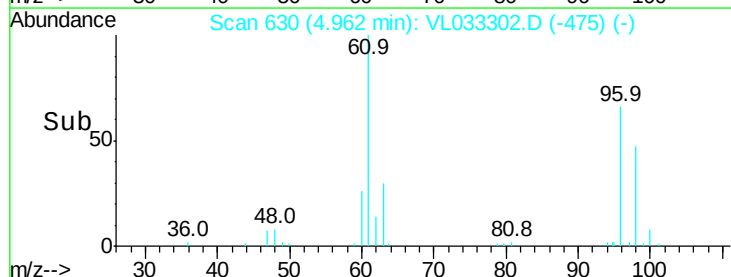
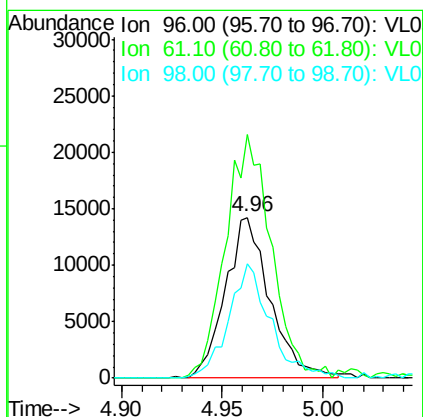
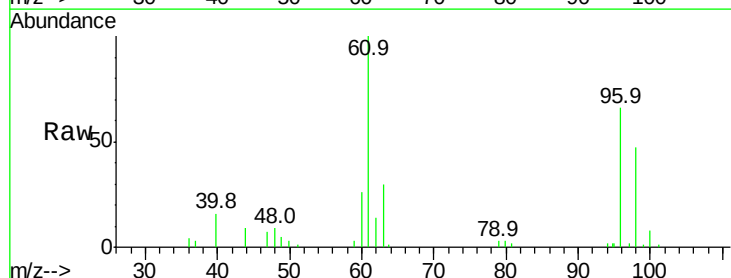
RT: 4.96 min Scan# 630

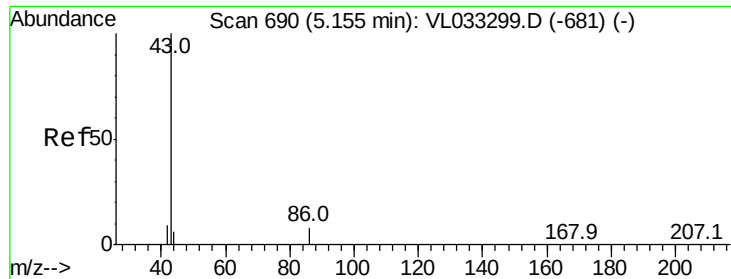
Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Tgt Ion:	96	Resp:	22040
Ion	Ratio	Lower	Upper
96	100		
61	149.8	132.7	199.1
98	69.9	52.4	78.6





#23

Vinyl Acetate

Concen: 0.493 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 43 Resp: 73825

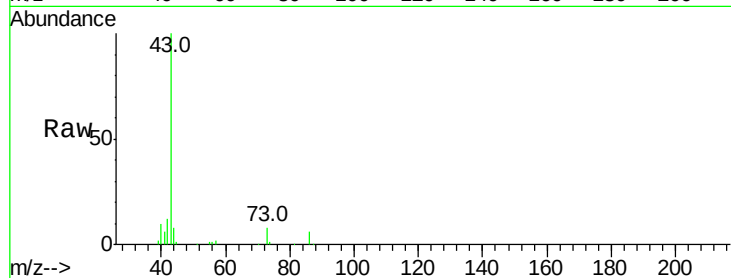
Ion Ratio Lower Upper

43 100

86 5.9 5.8 8.8

42 12.6 7.8 11.8#

44 6.6 4.1 6.1#

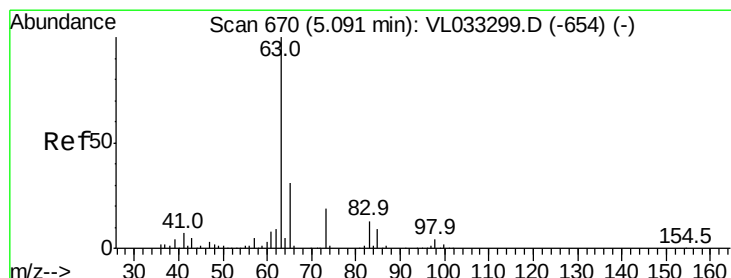
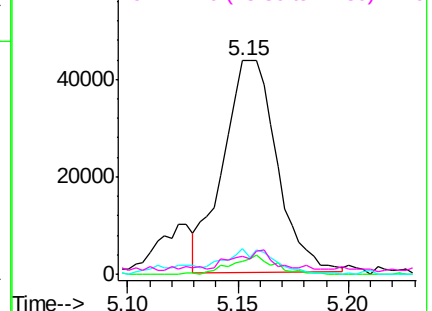
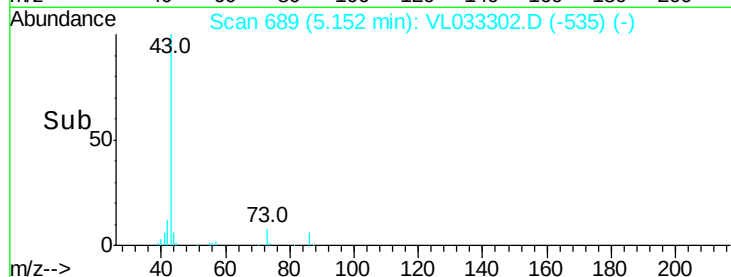


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.533 ppbv

RT: 5.09 min Scan# 669

Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

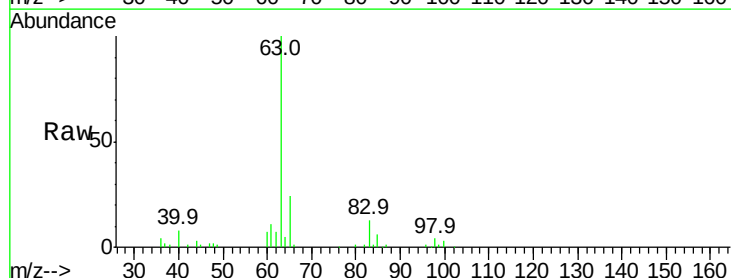
Tgt Ion: 63 Resp: 57819

Ion Ratio Lower Upper

63 100

98 5.1 2.3 6.8

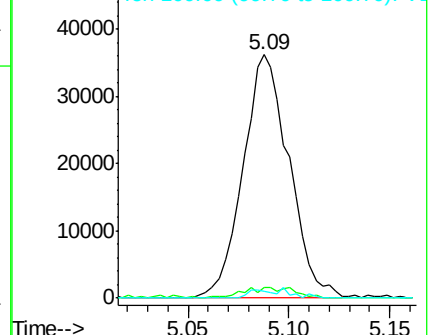
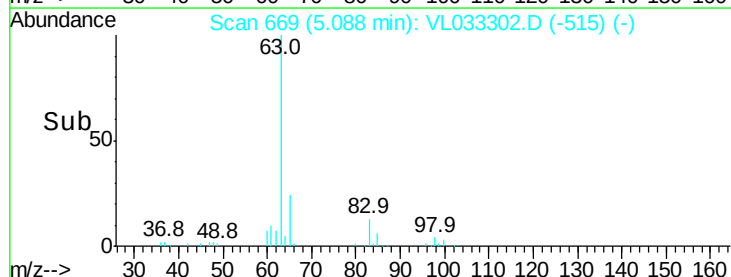
100 2.7 1.3 3.8

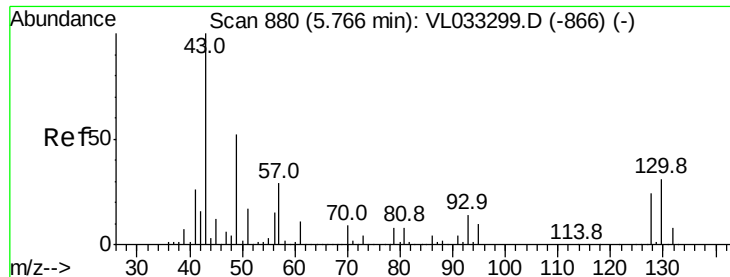


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

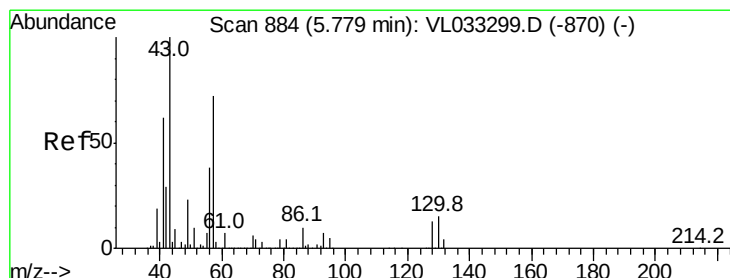
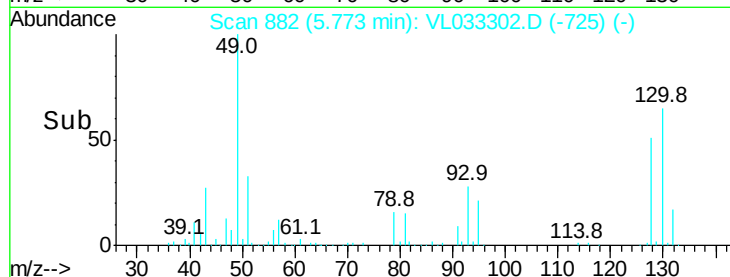
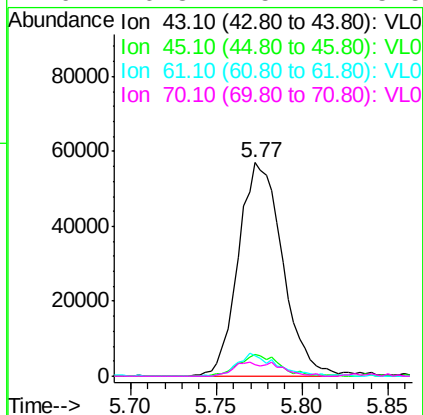
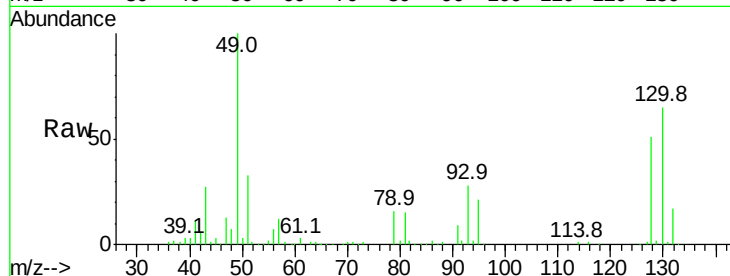




#25
Ethyl Acetate
Concen: 0.552 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.01 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

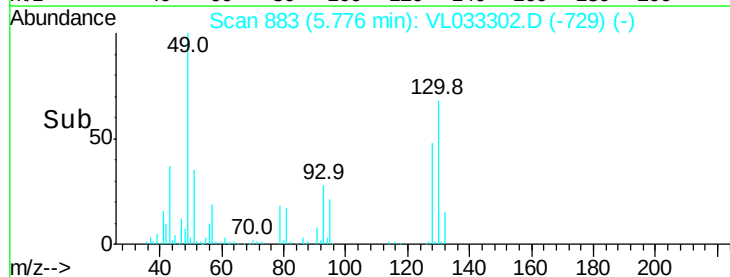
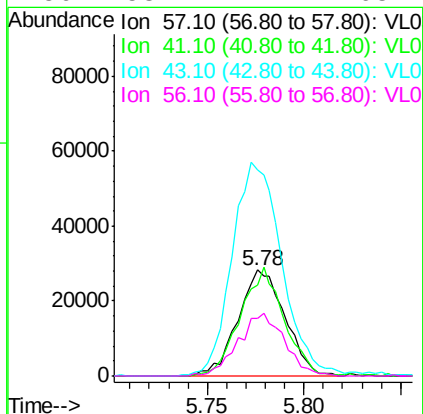
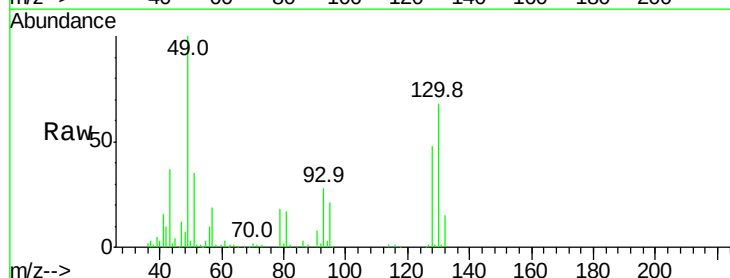
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

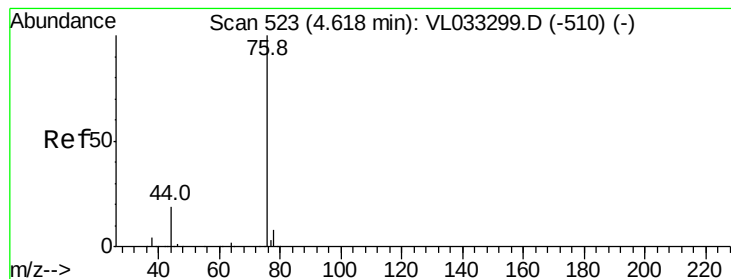
Tgt Ion:	43	Resp:	101639
Ion	Ratio	Lower	Upper
43	100		
45	9.6	8.0	12.0
61	9.6	7.5	11.3
70	6.8	5.7	8.5



#26
Hexane
Concen: 0.553 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Tgt Ion:	57	Resp:	47736
Ion	Ratio	Lower	Upper
57	100		
41	97.0	71.6	107.4
43	216.9	179.2	268.8
56	58.1	42.2	63.2





#27

Carbon Disulfide

Concen: 0.477 ppbv

RT: 4.62 min Scan# 525

Delta R.T. 0.01 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

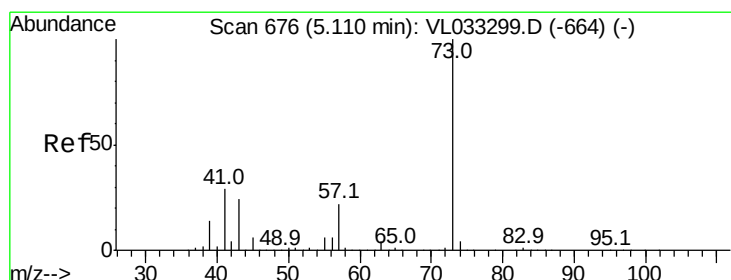
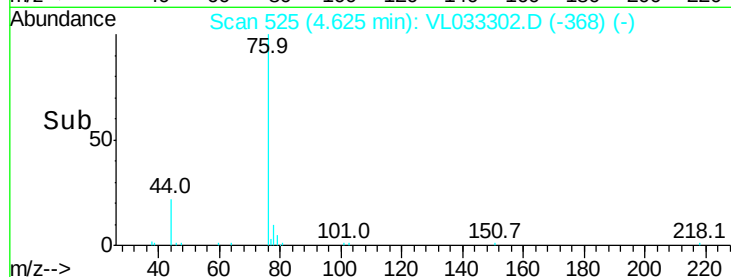
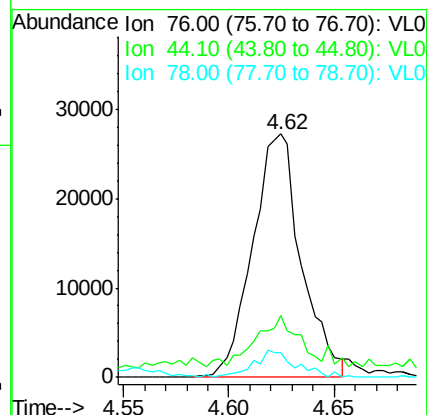
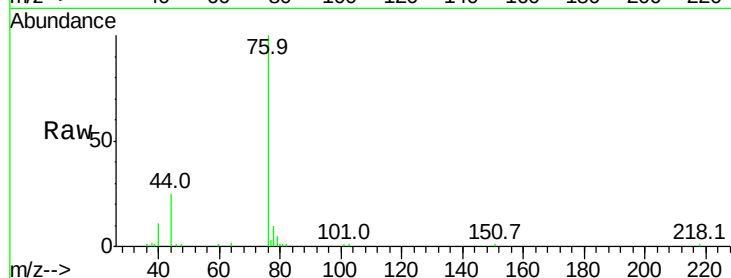
Tgt Ion: 76 Resp: 43758

Ion Ratio Lower Upper

76 100

44 25.3 14.7 22.1#

78 9.9 7.3 10.9



#28

Methyl tert-Butyl Ether

Concen: 0.518 ppbv

RT: 5.12 min Scan# 680

Delta R.T. 0.01 min

Lab File: VL033302.D

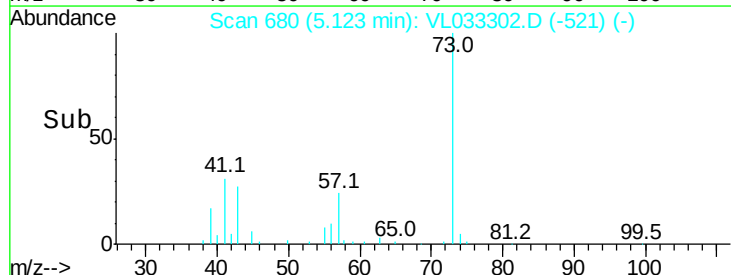
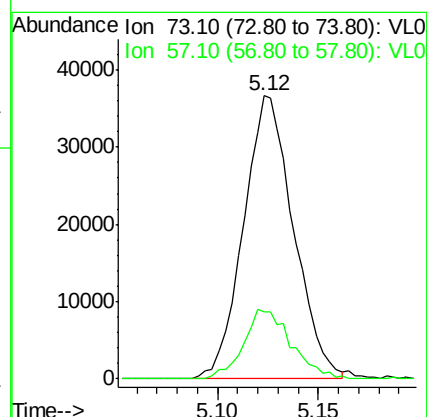
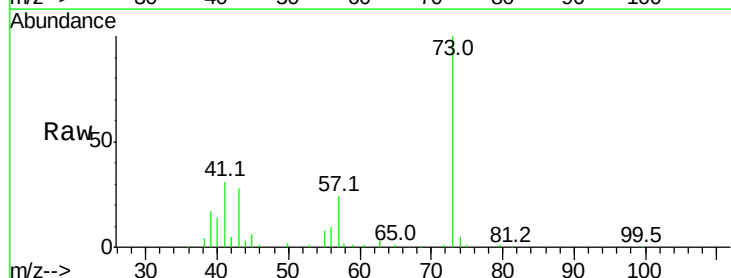
Acq: 13 Mar 2019 18:27

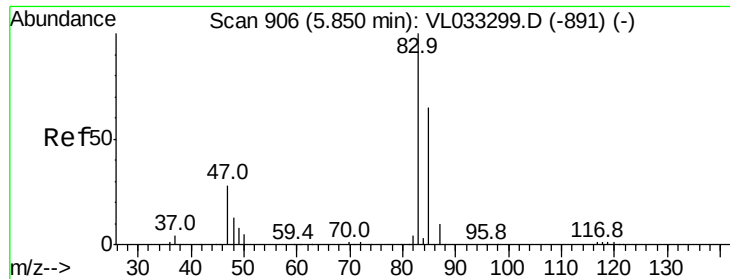
Tgt Ion: 73 Resp: 63552

Ion Ratio Lower Upper

73 100

57 23.3 17.4 26.0

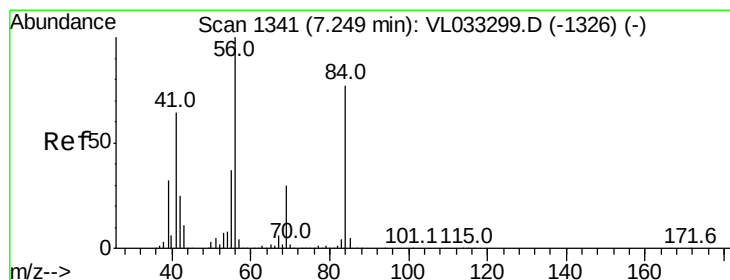
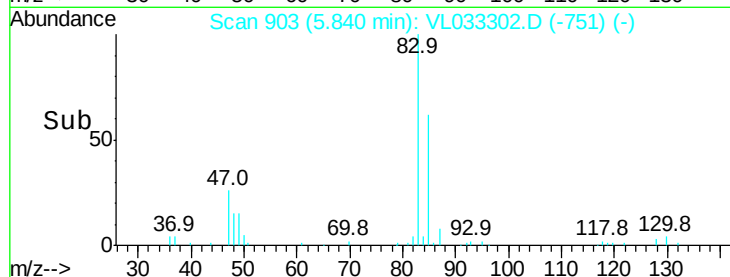
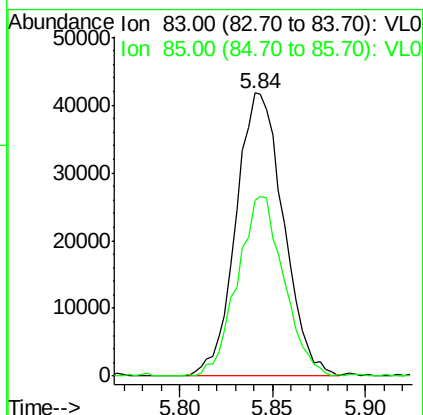
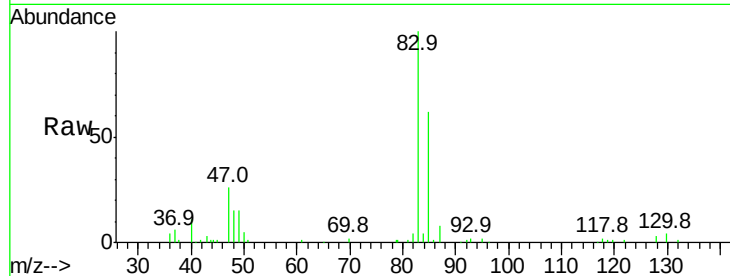




#29
Chloroform
Concen: 0.565 ppbv
RT: 5.84 min Scan# 903
Delta R.T. -0.01 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

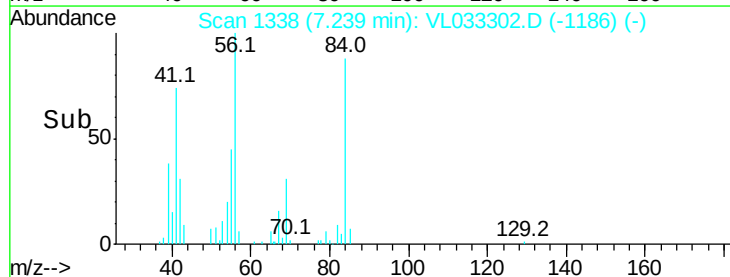
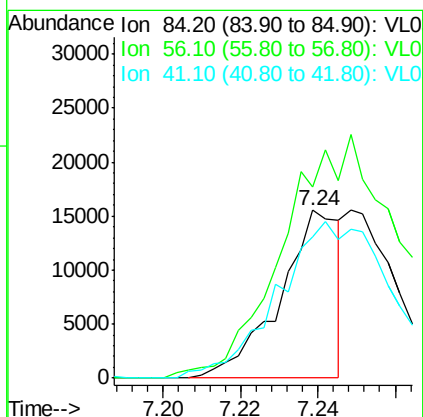
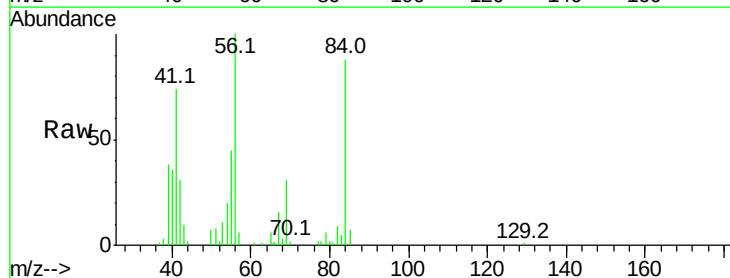
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

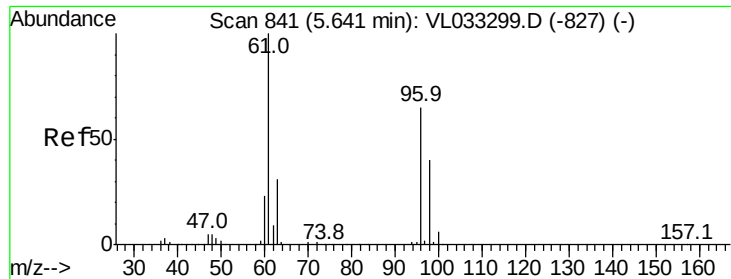
Tgt Ion: 83 Resp: 74320
Ion Ratio Lower Upper
83 100
85 61.4 52.2 78.4



#30
Cyclohexane
Concen: 0.247 ppbv
RT: 7.24 min Scan# 1338
Delta R.T. -0.01 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Tgt Ion: 84 Resp: 16577
Ion Ratio Lower Upper
84 100
56 0.0 109.8 164.8#
41 178.4 68.1 102.1#





#31

cis-1,2-Dichloroethene

Concen: 0.514 ppbv

RT: 5.64 min Scan# 841

Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

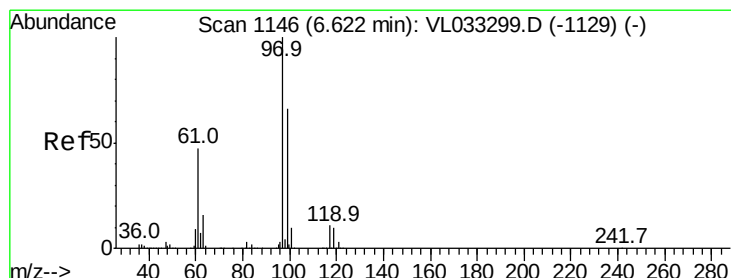
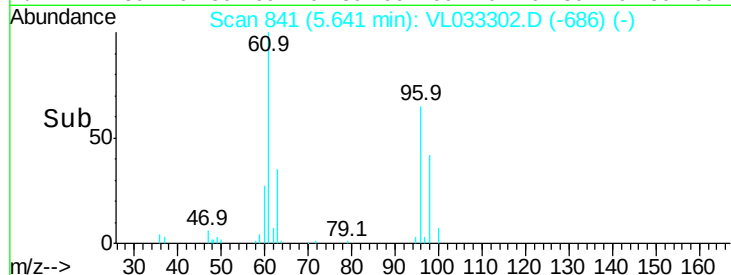
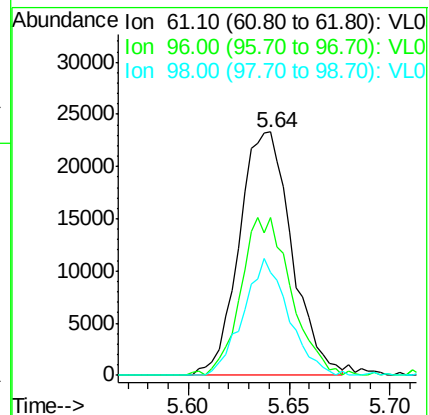
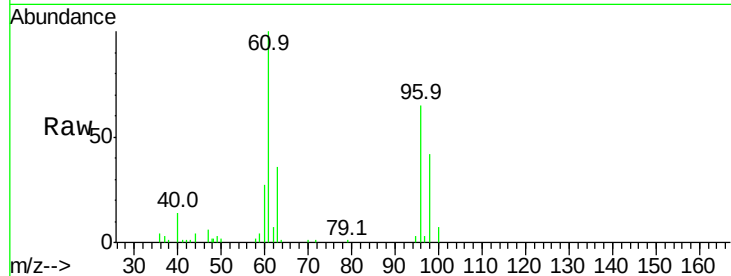
Tgt Ion: 61 Resp: 42609

Ion Ratio Lower Upper

61 100

96 64.7 51.8 77.6

98 42.2 32.3 48.5



#32

1,1,1-Trichloroethane

Concen: 0.520 ppbv

RT: 6.62 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

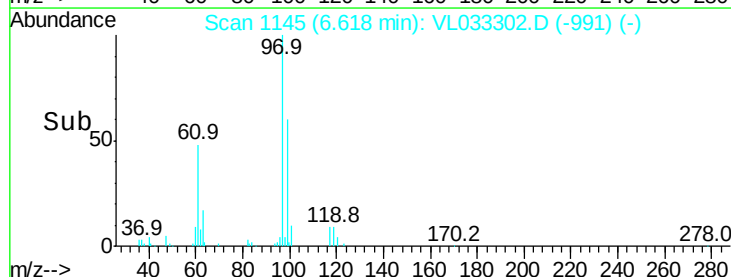
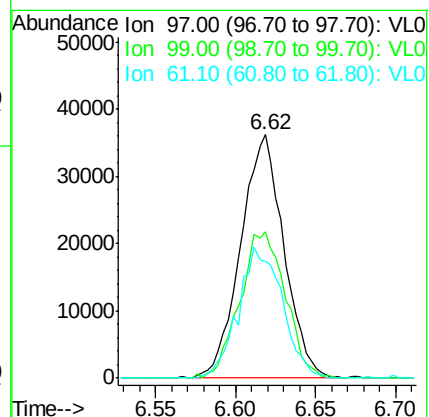
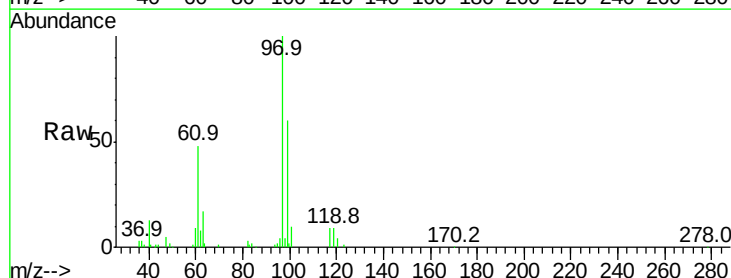
Tgt Ion: 97 Resp: 66649

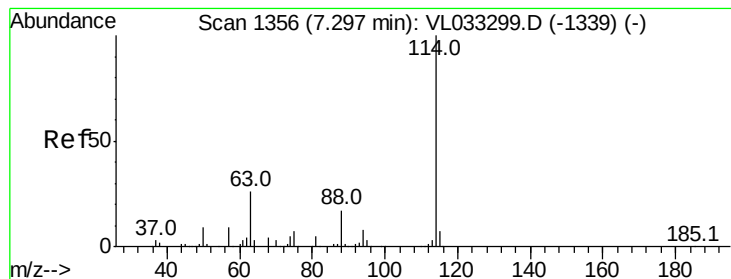
Ion Ratio Lower Upper

97 100

99 63.5 51.6 77.4

61 54.8 39.4 59.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.01 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

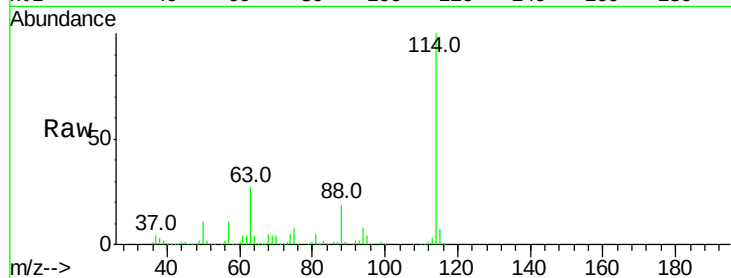
Tgt Ion:114 Resp: 1754371

Ion Ratio Lower Upper

114 100

63 26.5 21.3 31.9

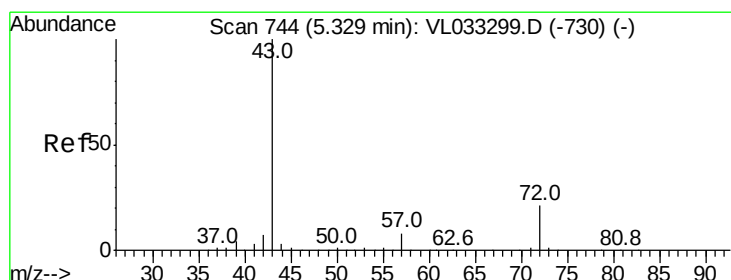
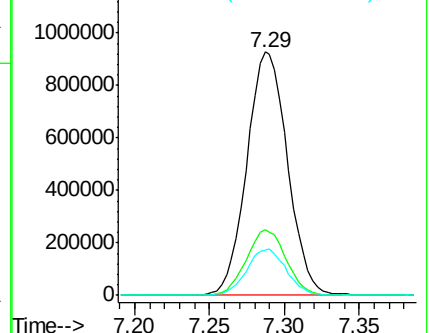
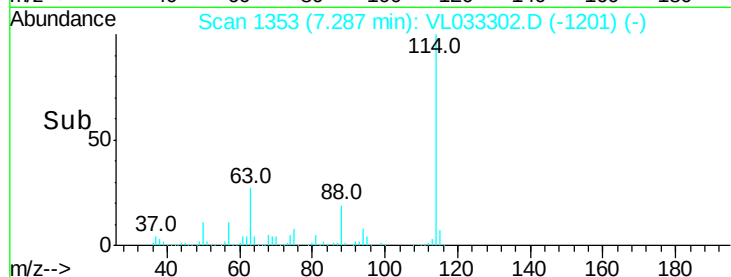
88 18.7 14.5 21.7



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: 0.529 ppbv

RT: 5.34 min Scan# 748

Delta R.T. 0.01 min

Lab File: VL033302.D

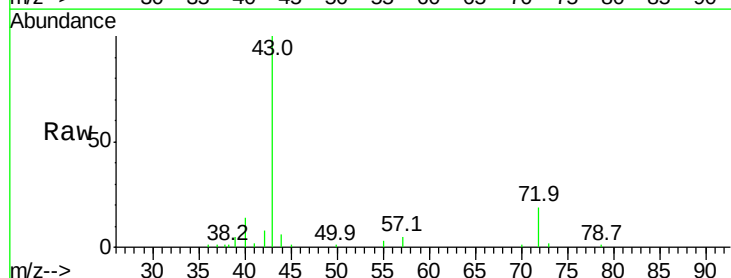
Acq: 13 Mar 2019 18:27

Tgt Ion: 43 Resp: 61316

Ion Ratio Lower Upper

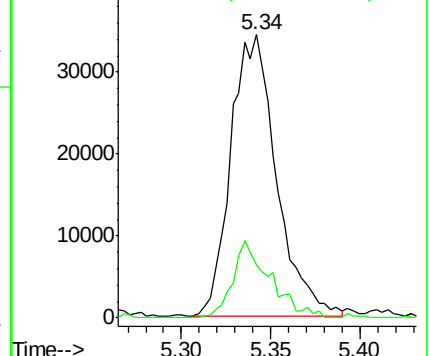
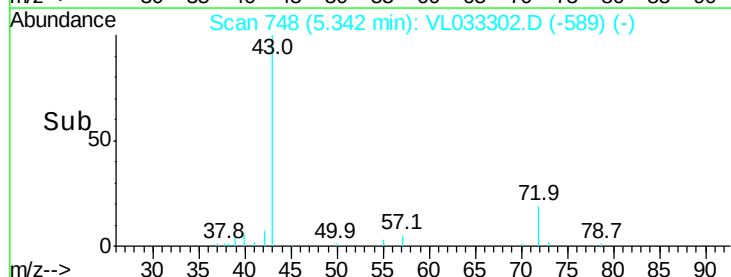
43 100

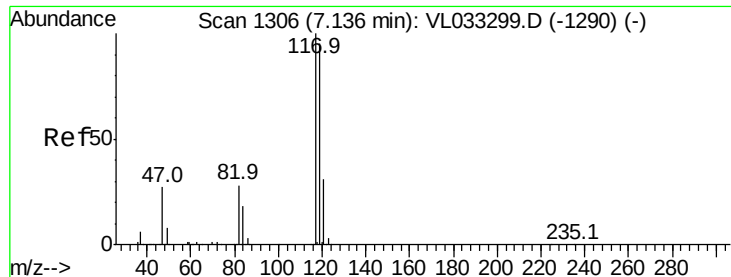
72 22.6 17.2 25.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.508 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.01 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

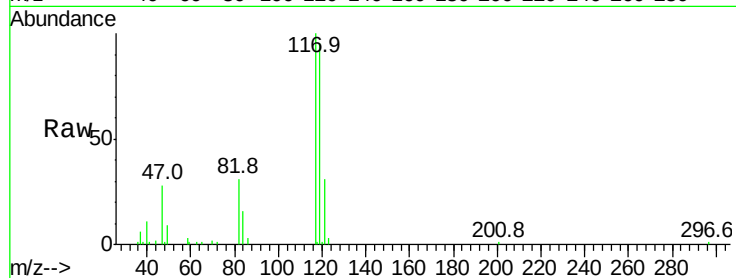
Tgt Ion:117 Resp: 65152

Ion Ratio Lower Upper

117 100

119 93.7 75.9 113.9

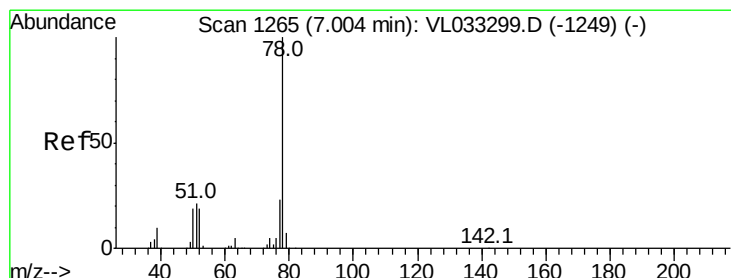
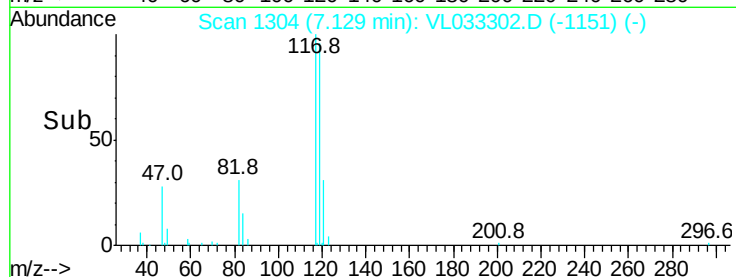
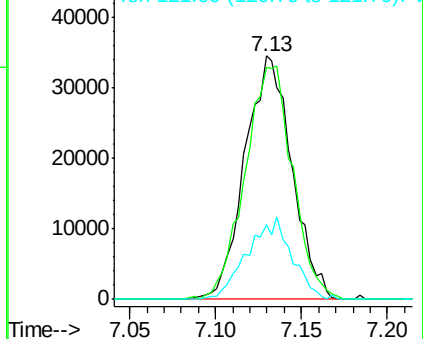
121 30.4 25.2 37.8



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: 0.316 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

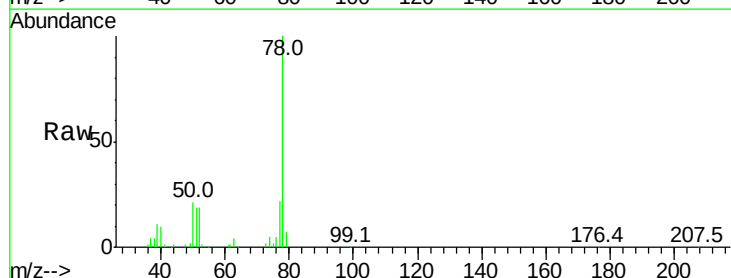
Tgt Ion: 78 Resp: 51118

Ion Ratio Lower Upper

78 100

77 21.7 18.6 28.0

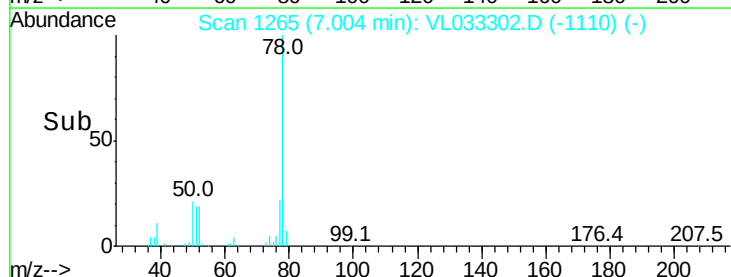
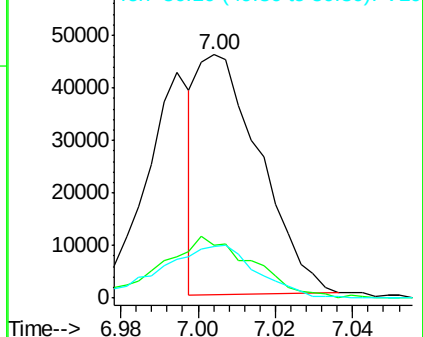
50 20.9 15.2 22.8

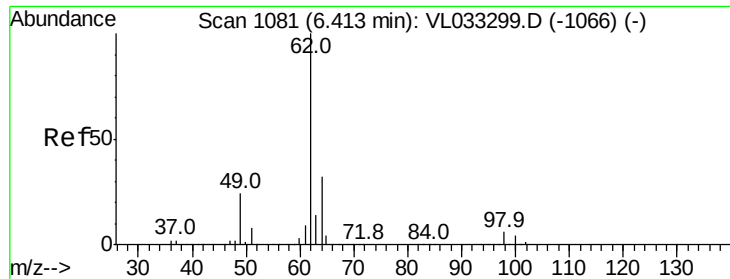


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 0.569 ppbv

RT: 6.41 min Scan# 1080

Delta R.T. -0.00 min

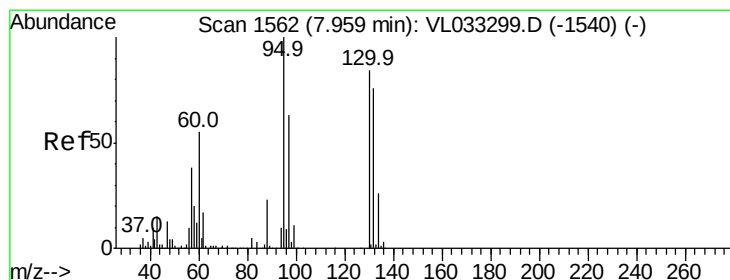
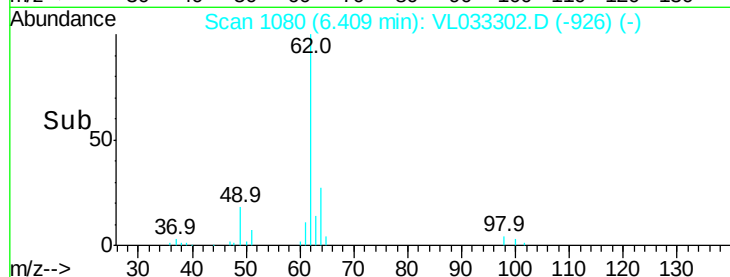
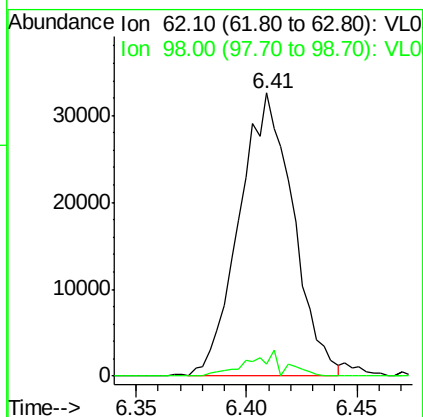
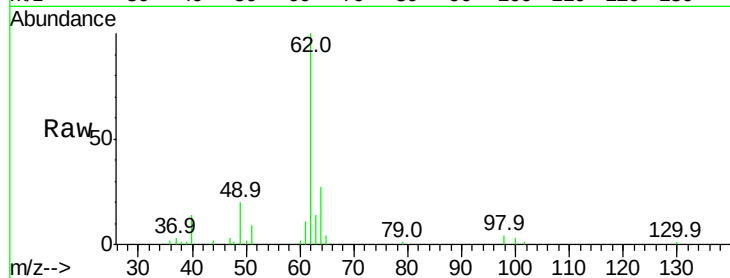
Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 62 Resp: 55214

Ion	Ratio	Lower	Upper
62	100		
98	5.9	4.4	6.6



#38

Trichloroethene

Concen: 0.523 ppbv

RT: 7.96 min Scan# 1561

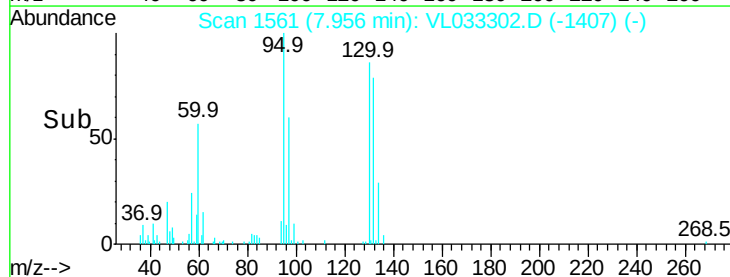
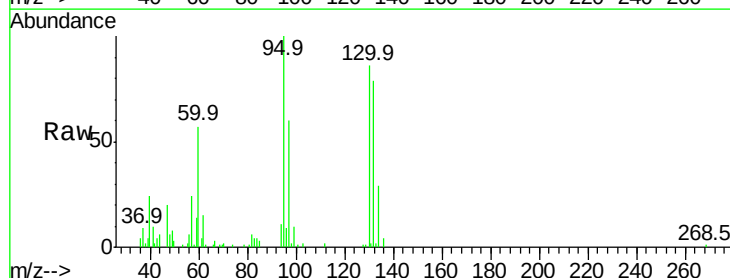
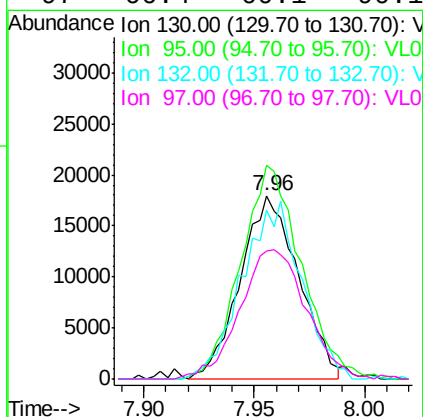
Delta R.T. -0.00 min

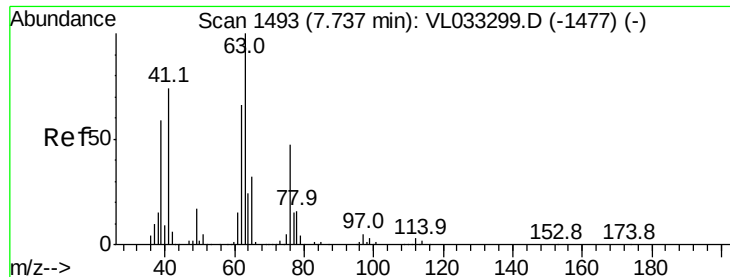
Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Tgt Ion: 130 Resp: 32985

Ion	Ratio	Lower	Upper
130	100		
95	114.1	95.2	142.8
132	90.3	72.5	108.7
97	66.4	60.1	90.1





#39

1,2-Dichloropropane

Concen: 0.571 ppbv

RT: 7.73 min Scan# 1491

Delta R.T. -0.01 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

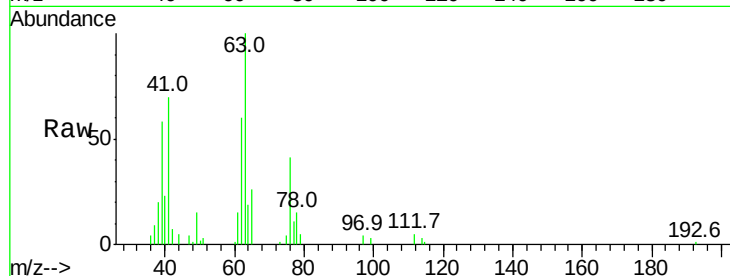
Tgt Ion: 63 Resp: 34736

Ion Ratio Lower Upper

63 100

41 69.6 59.0 88.4

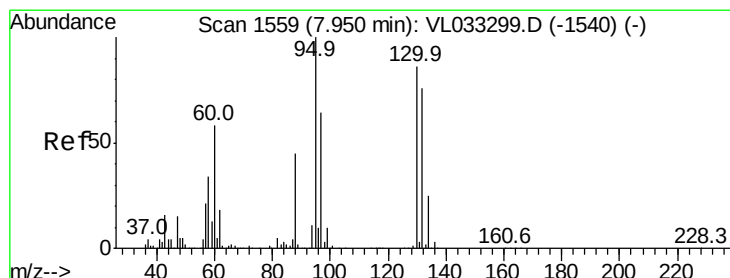
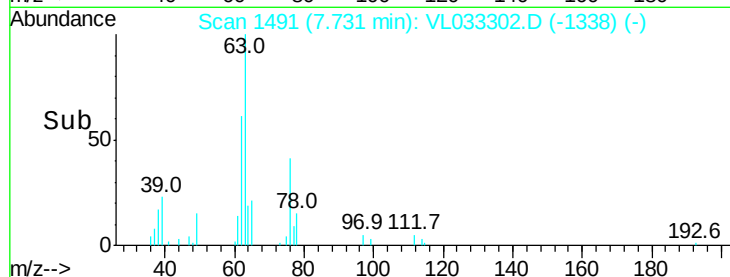
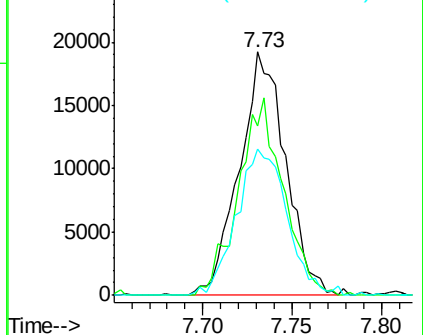
62 60.2 53.0 79.4



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: 0.233 ppbv

RT: 7.99 min Scan# 1571

Delta R.T. 0.04 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Tgt Ion: 88 Resp: 5344

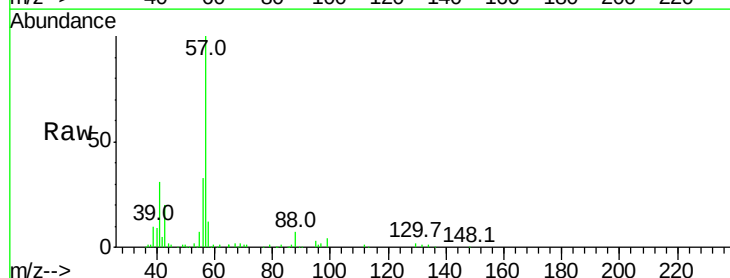
Ion Ratio Lower Upper

88 100

58 334.6 97.7 146.5#

43 671.3 199.4 299.2#

57 2813.1 875.6 1313.4#

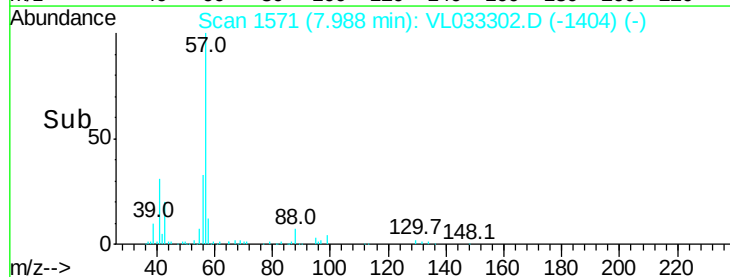
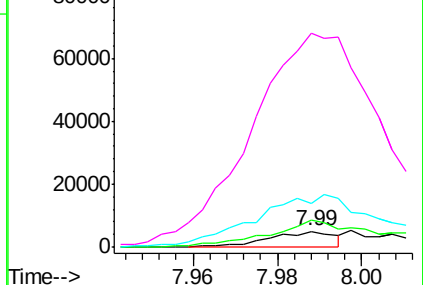


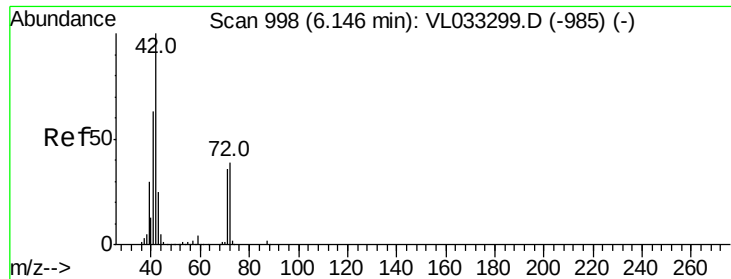
Abundance Ion 88.10 (87.80 to 88.80): VL0

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

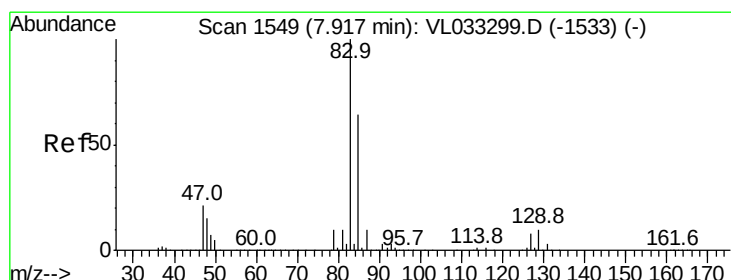
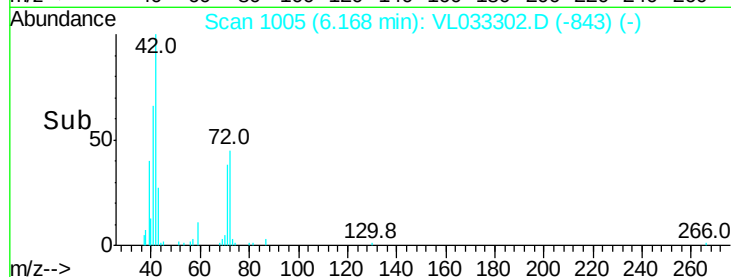
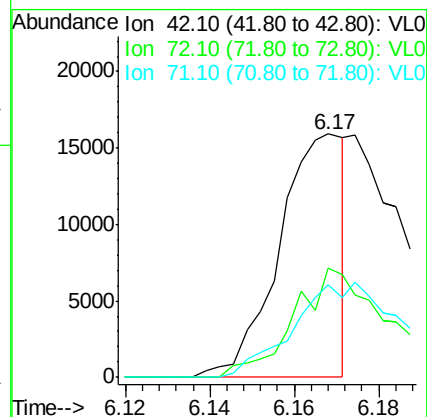
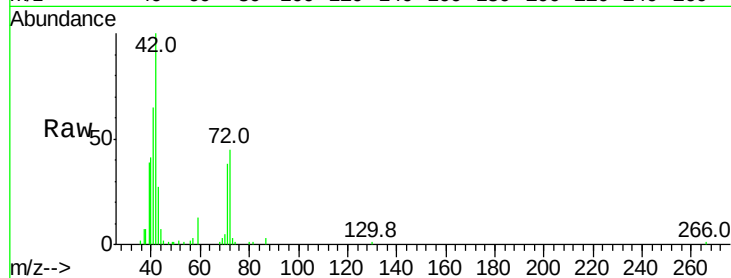




#41
Tetrahydrofuran
Concen: 0.266 ppbv
RT: 6.17 min Scan# 1005
Delta R.T. 0.02 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

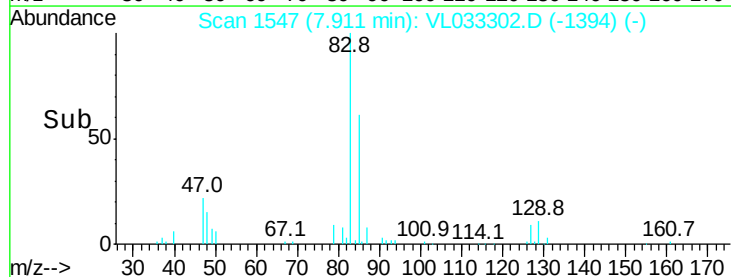
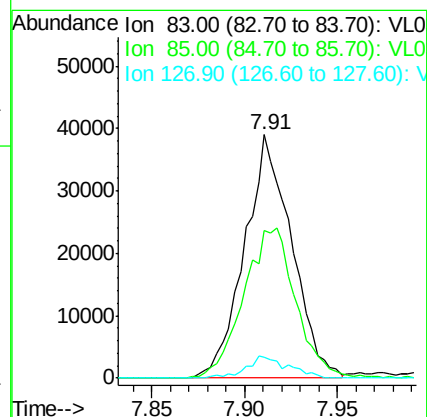
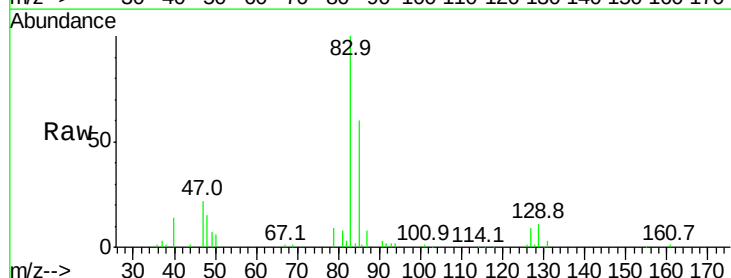
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

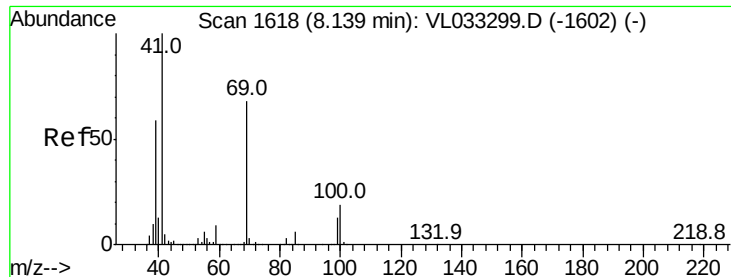
Tgt Ion: 42 Resp: 17107
Ion Ratio Lower Upper
42 100
72 71.6 30.8 46.2#
71 0.0 30.0 45.0#



#42
Bromodichloromethane
Concen: 0.516 ppbv
RT: 7.91 min Scan# 1547
Delta R.T. -0.01 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Tgt Ion: 83 Resp: 68963
Ion Ratio Lower Upper
83 100
85 59.9 51.0 76.4
127 8.8 6.6 10.0





#43

Methyl Methacrylate

Concen: 0.319 ppbv

RT: 8.14 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

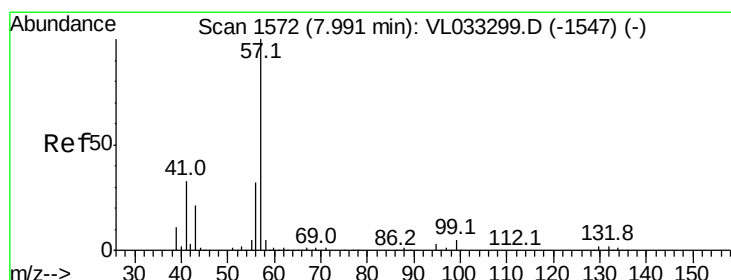
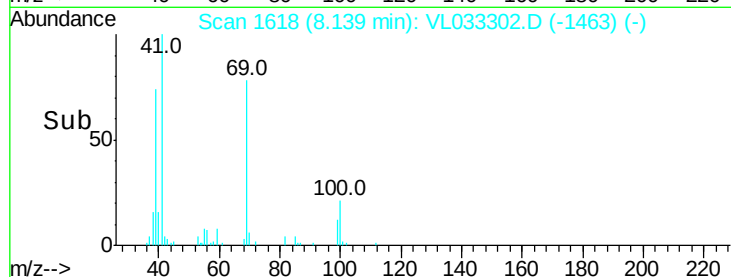
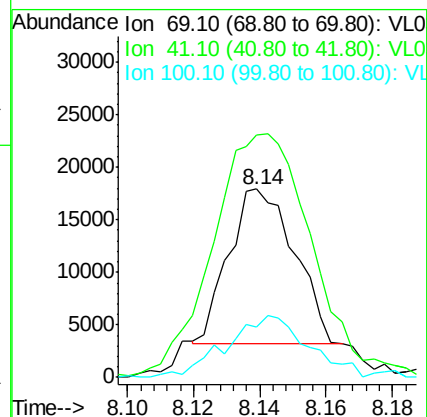
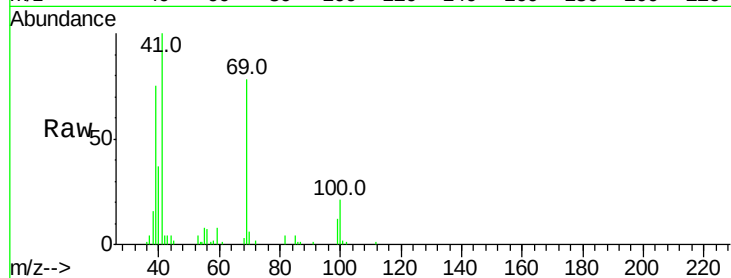
Tgt Ion: 69 Resp: 20133

Ion Ratio Lower Upper

69 100

41 241.4 117.0 175.4#

100 51.3 24.3 36.5#



#44

2,2,4-Trimethylpentane

Concen: 0.543 ppbv

RT: 7.99 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

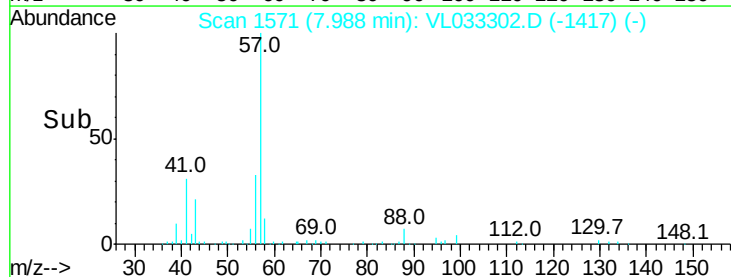
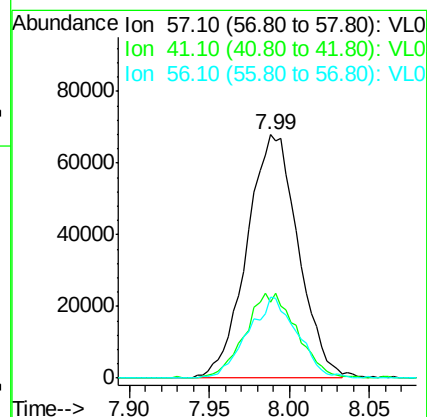
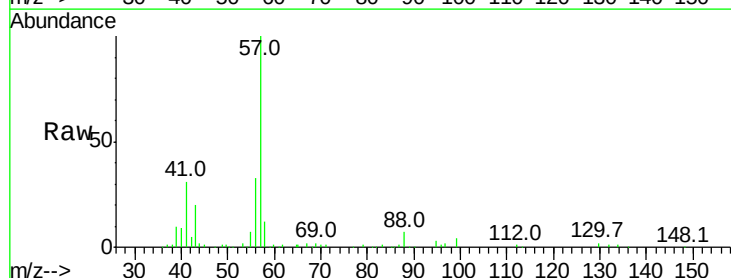
Tgt Ion: 57 Resp: 149287

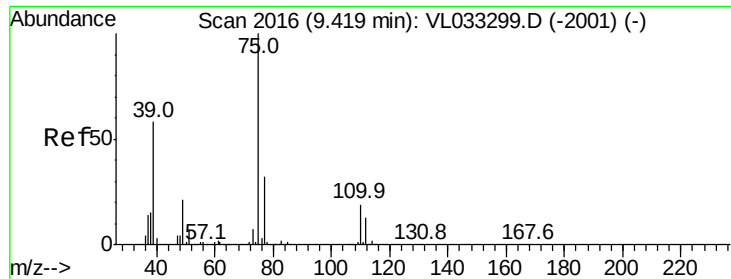
Ion Ratio Lower Upper

57 100

41 35.3 25.9 38.9

56 32.1 24.6 36.8





#45

t-1,3-Dichloropropene

Concen: 0.404 ppbv

RT: 9.41 min Scan# 2014

Delta R.T. -0.01 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

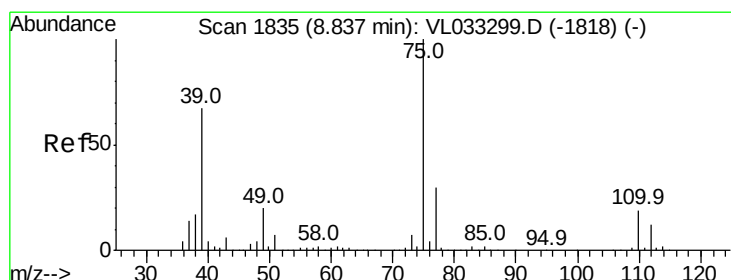
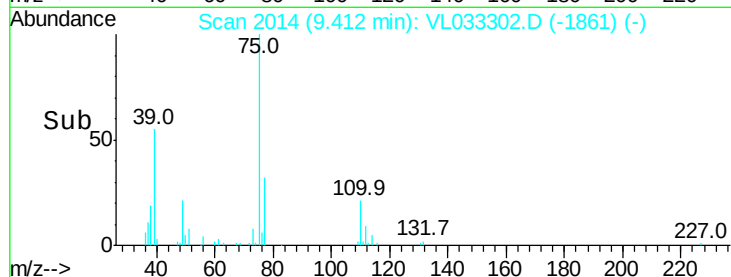
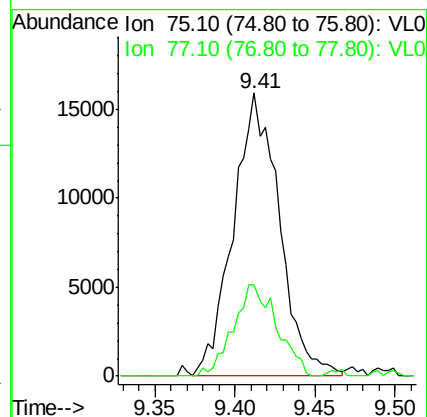
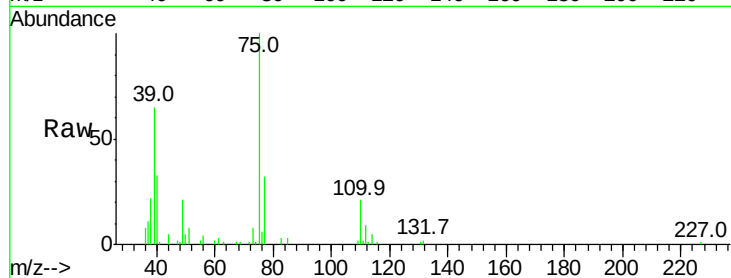
VSTDIC0.5

Tgt Ion: 75 Resp: 31354

Ion Ratio Lower Upper

75 100

77 32.4 25.3 37.9



#46

cis-1,3-Dichloropropene

Concen: 0.460 ppbv

RT: 8.83 min Scan# 1833

Delta R.T. -0.01 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

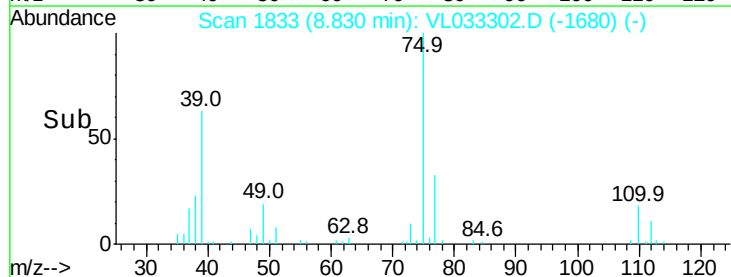
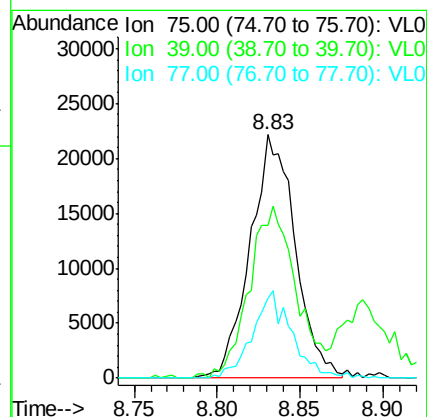
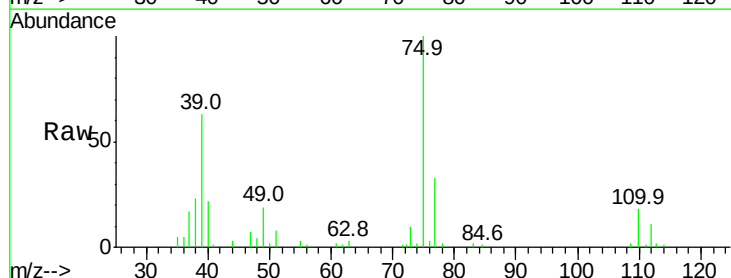
Tgt Ion: 75 Resp: 41795

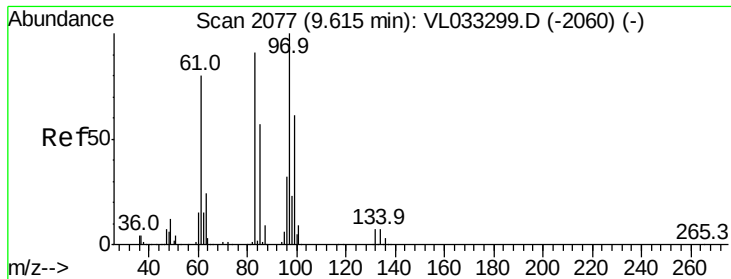
Ion Ratio Lower Upper

75 100

39 62.8 53.4 80.2

77 32.8 23.7 35.5

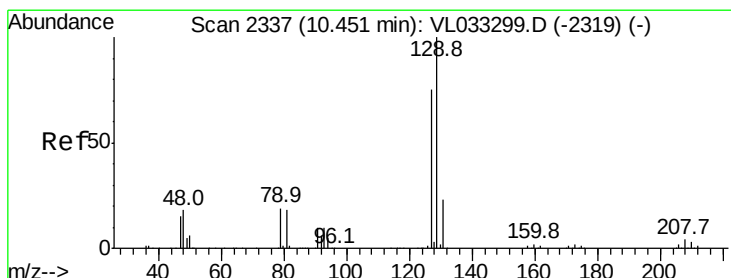
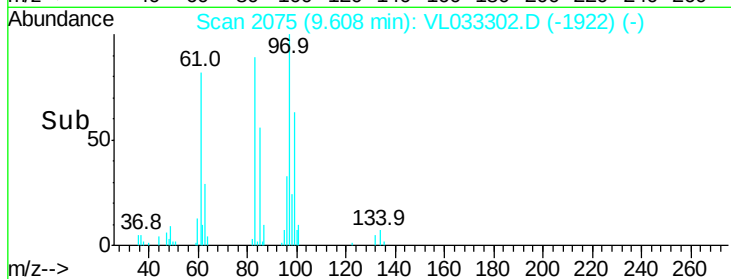
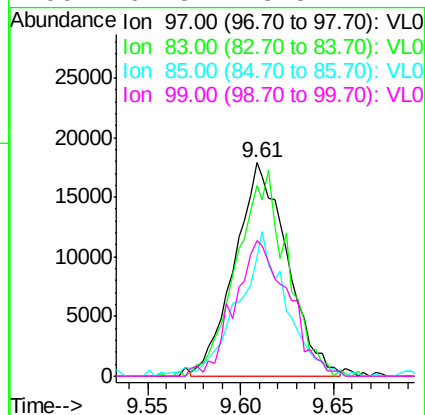
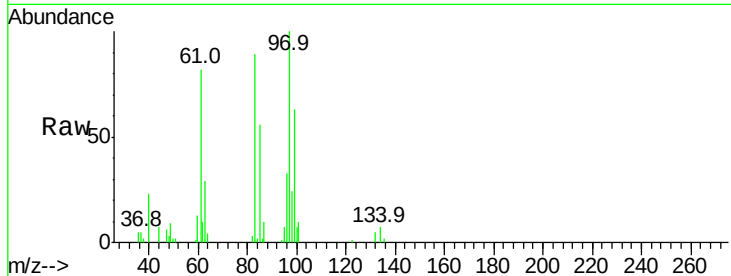




#47
 1,1,2-Trichloroethane
 Concen: 0.545 ppbv
 RT: 9.61 min Scan# 2075
 Delta R.T. -0.01 min
 Lab File: VL033302.D
 Acq: 13 Mar 2019 18:27

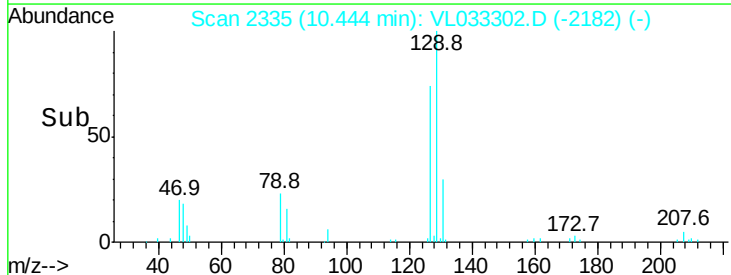
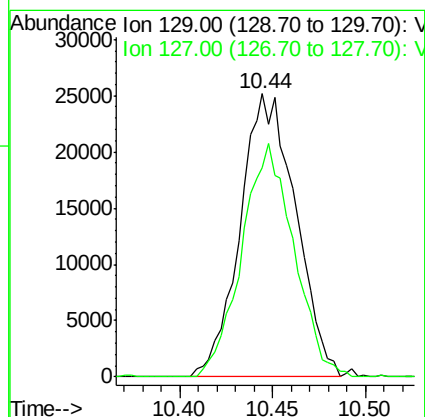
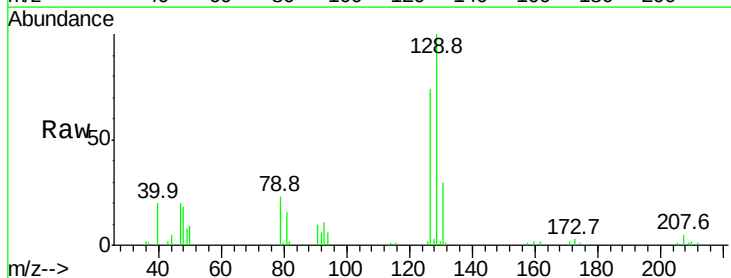
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

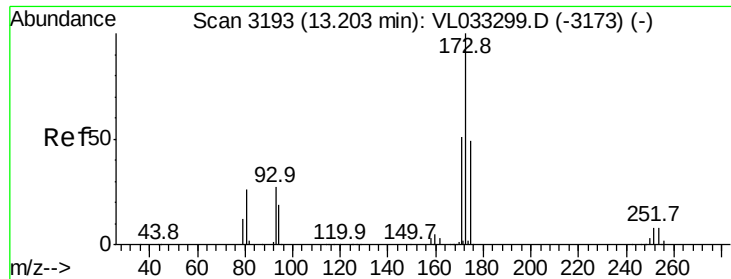
Tgt Ion: 97 Resp: 35429
 Ion Ratio Lower Upper
 97 100
 83 89.1 72.7 109.1
 85 55.6 45.6 68.4
 99 62.3 48.5 72.7



#48
 Dibromochloromethane
 Concen: 0.491 ppbv
 RT: 10.44 min Scan# 2335
 Delta R.T. -0.01 min
 Lab File: VL033302.D
 Acq: 13 Mar 2019 18:27

Tgt Ion: 129 Resp: 52310
 Ion Ratio Lower Upper
 129 100
 127 77.1 39.0 117.0





#49

Bromoform

Concen: 0.349 ppbv

RT: 13.20 min Scan# 3192

Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

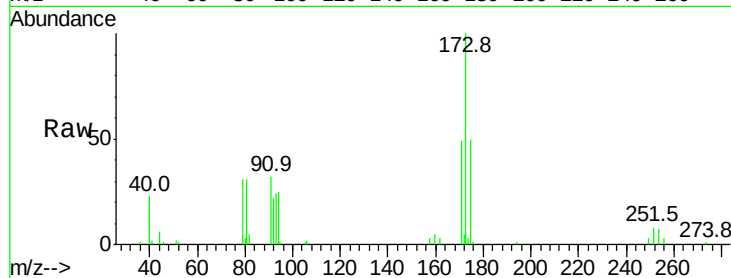
Tgt Ion:173 Resp: 30195

Ion Ratio Lower Upper

173 100

175 67.4 38.6 58.0#

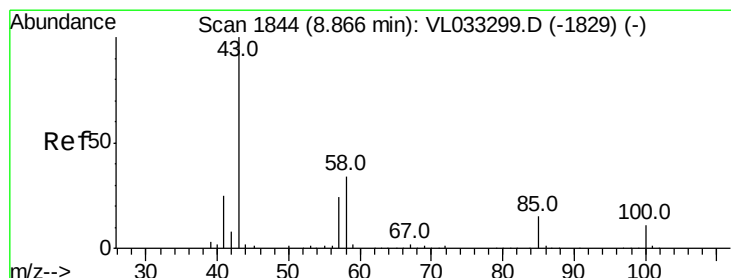
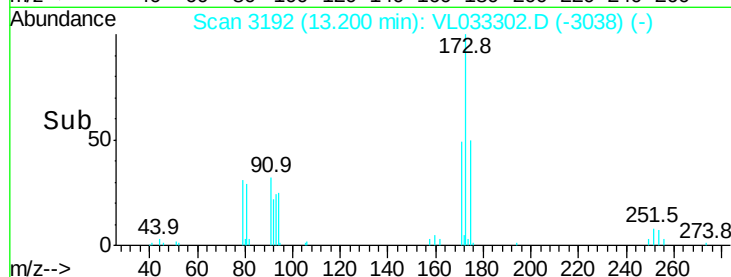
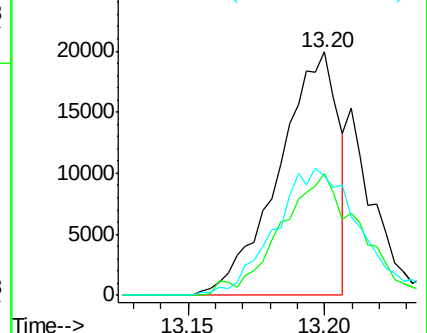
171 74.4 42.0 63.0#



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: 0.514 ppbv

RT: 8.89 min Scan# 1851

Delta R.T. 0.02 min

Lab File: VL033302.D

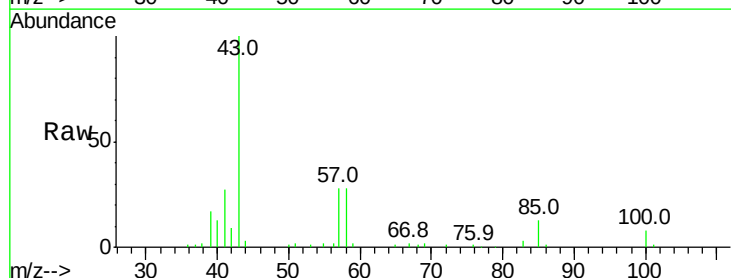
Acq: 13 Mar 2019 18:27

Tgt Ion: 43 Resp: 85149

Ion Ratio Lower Upper

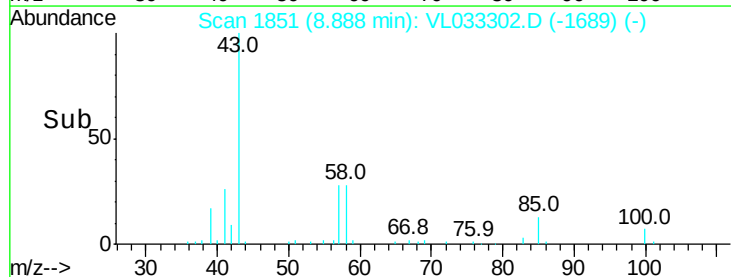
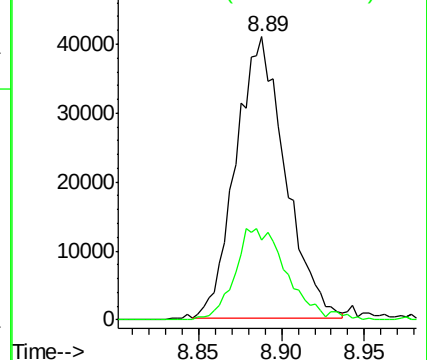
43 100

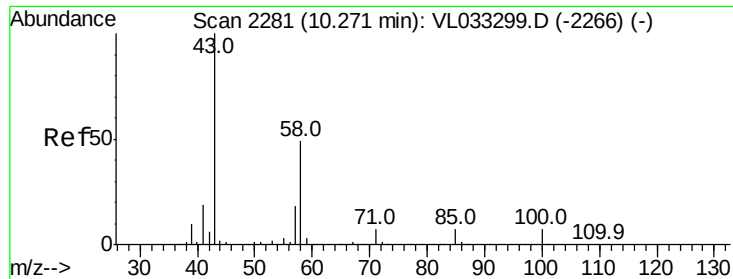
58 34.1 28.2 42.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

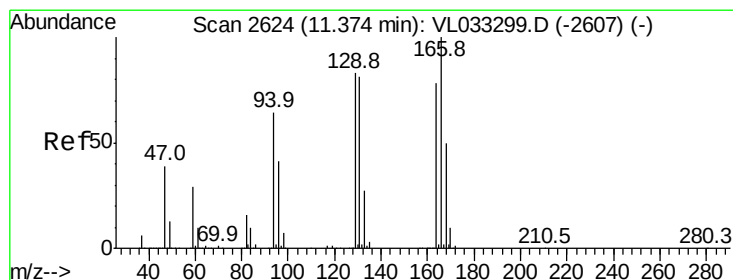
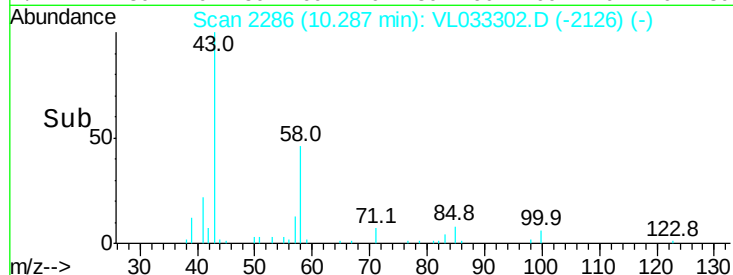
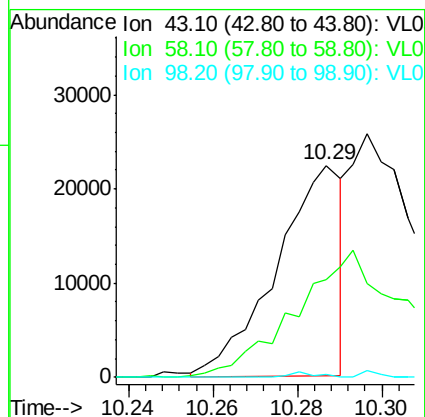
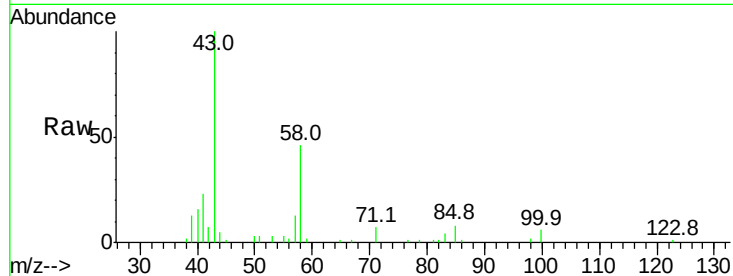




#51
2-Hexanone
Concen: 0.193 ppbv
RT: 10.29 min Scan# 2286
Delta R.T. 0.02 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

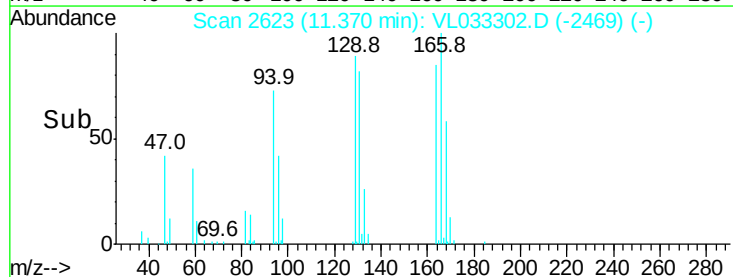
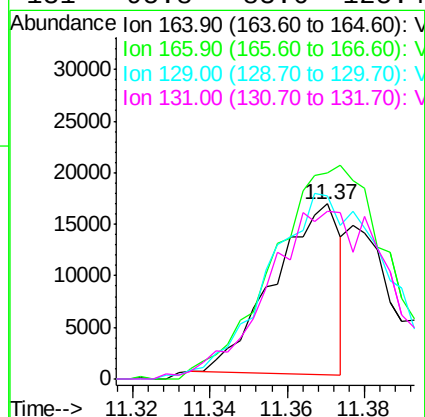
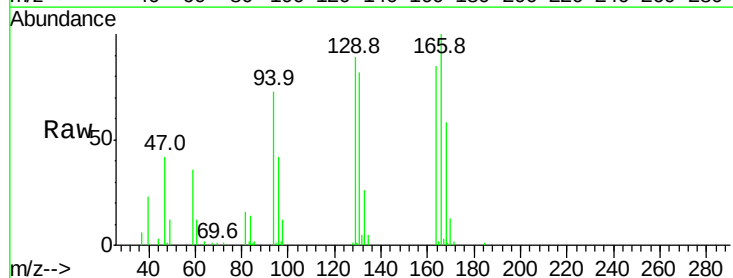
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

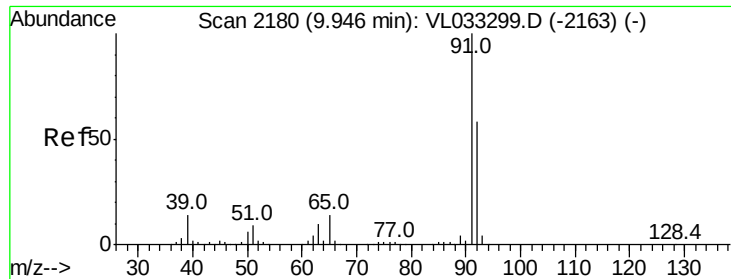
Tgt Ion: 43 Resp: 24422
Ion Ratio Lower Upper
43 100
58 0.0 38.4 57.6#
98 0.0 0.2 0.2#



#52
Tetrachloroethene
Concen: 0.332 ppbv
RT: 11.37 min Scan# 2623
Delta R.T. -0.00 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Tgt Ion: 164 Resp: 19679
Ion Ratio Lower Upper
164 100
166 116.4 103.2 154.8
129 105.0 85.8 128.8
131 95.8 83.6 125.4





#53

Toluene

Concen: 0.495 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

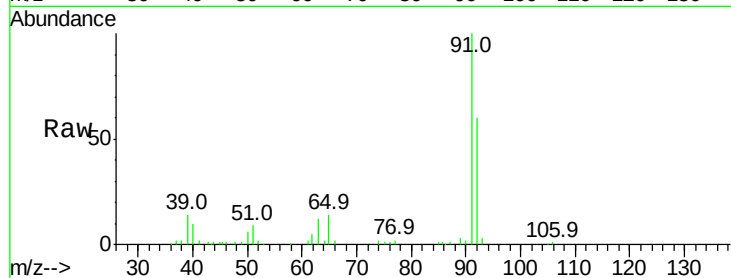
VSTDIC0.5

Tgt Ion: 91 Resp: 92288

Ion Ratio Lower Upper

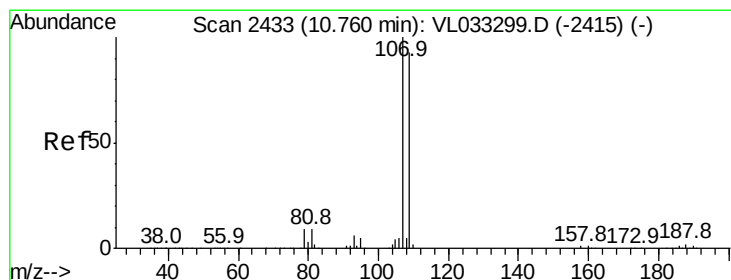
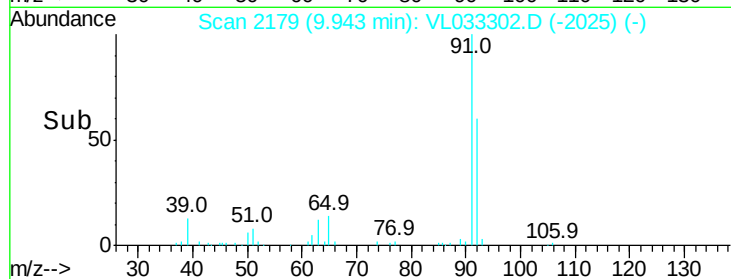
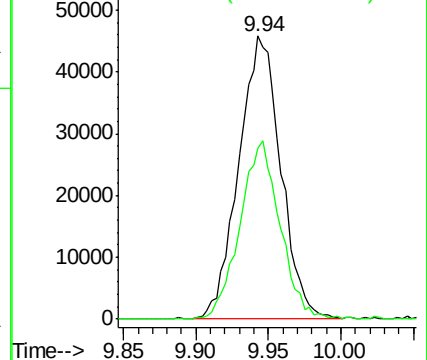
91 100

92 60.2 47.4 71.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 0.582 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. -0.00 min

Lab File: VL033302.D

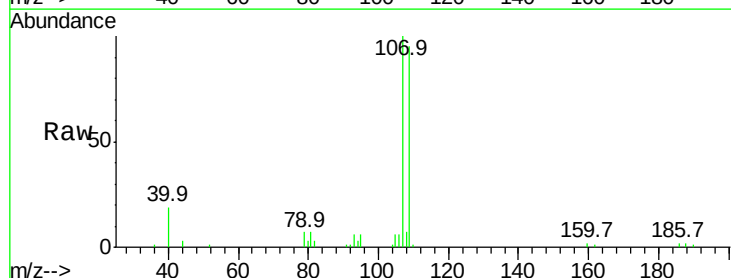
Acq: 13 Mar 2019 18:27

Tgt Ion: 107 Resp: 58185

Ion Ratio Lower Upper

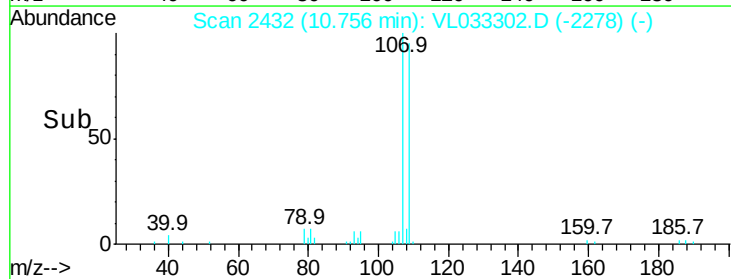
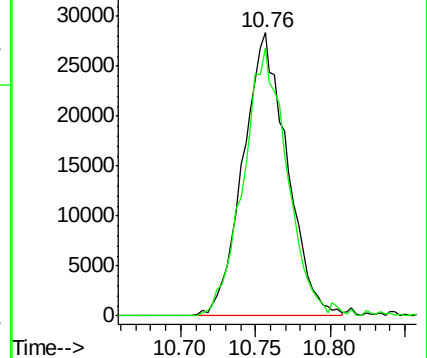
107 100

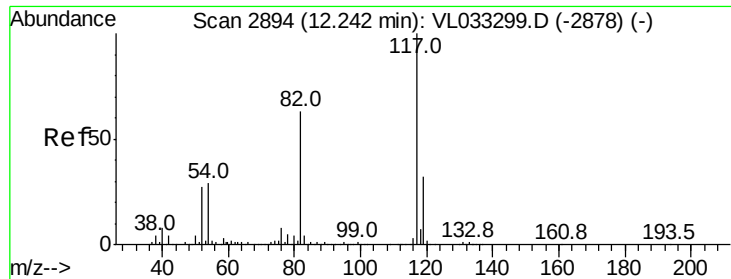
109 95.4 74.3 111.5



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

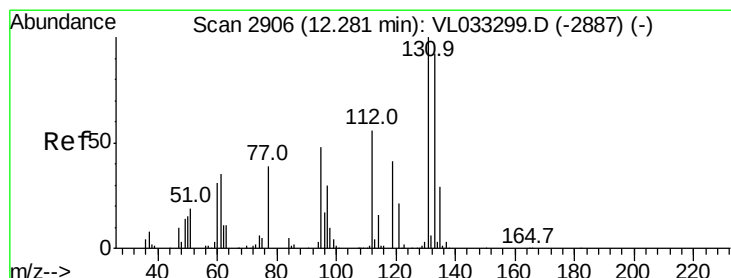
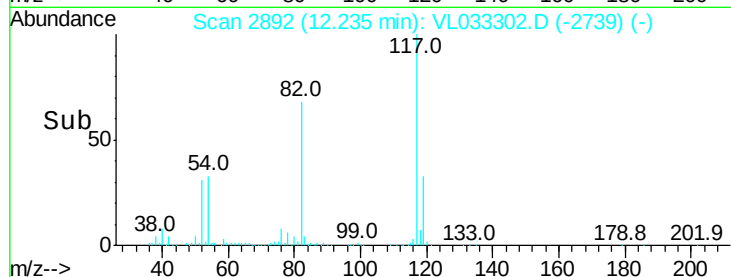
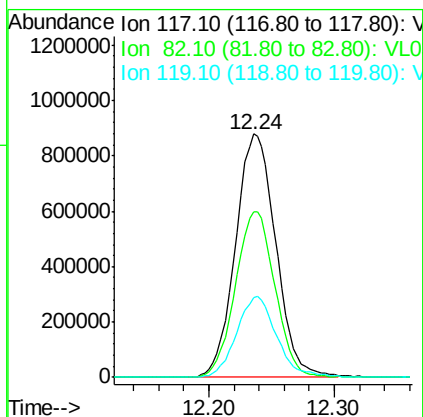
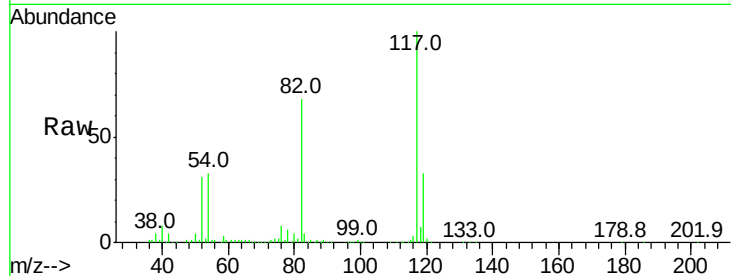




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

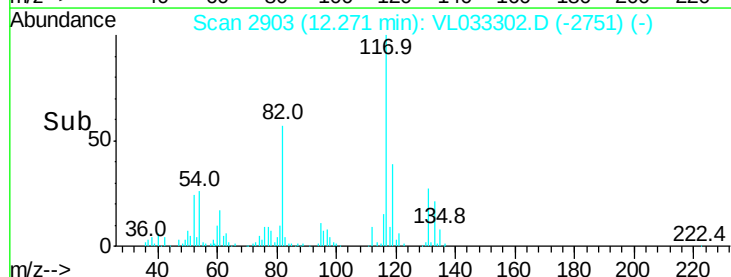
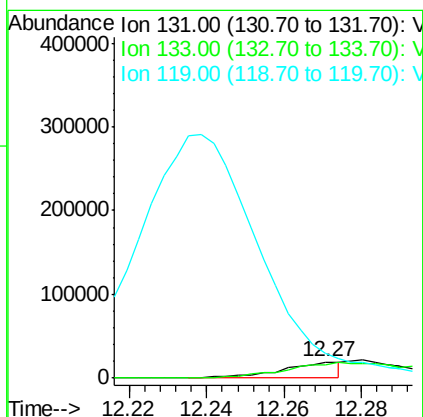
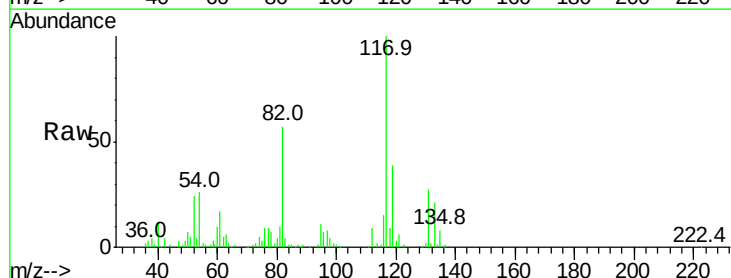
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

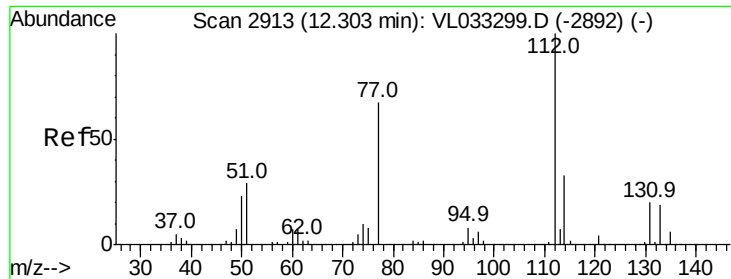
Tgt Ion:117 Resp: 1954820
Ion Ratio Lower Upper
117 100
82 67.3 51.3 76.9
119 33.3 27.0 40.4



#56
1,1,1,2-Tetrachloroethane
Concen: 0.245 ppbv
RT: 12.27 min Scan# 2903
Delta R.T. -0.01 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Tgt Ion:131 Resp: 20352
Ion Ratio Lower Upper
131 100
133 210.9 75.3 112.9#
119 0.0 45.0 67.4#

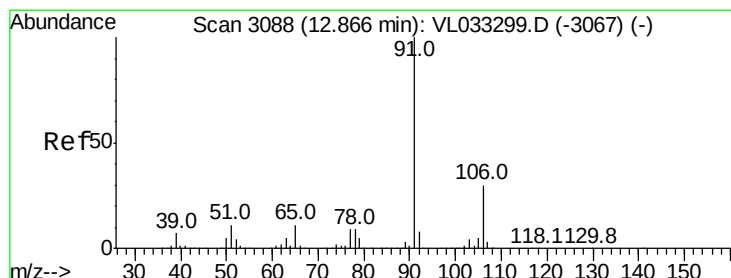
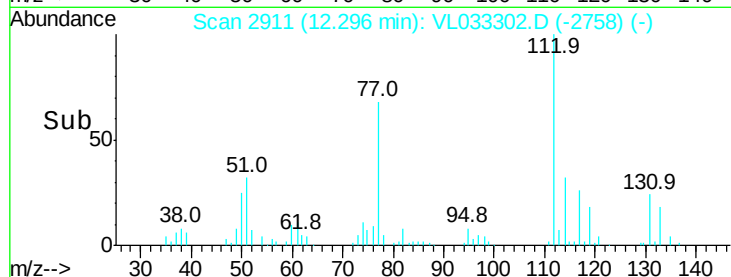
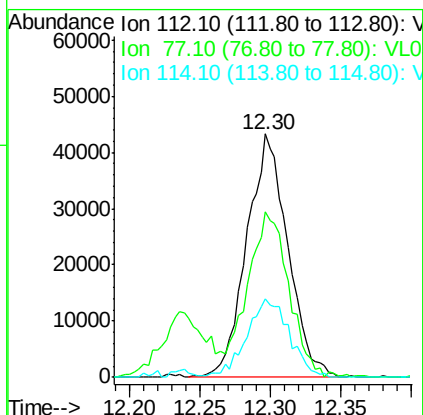
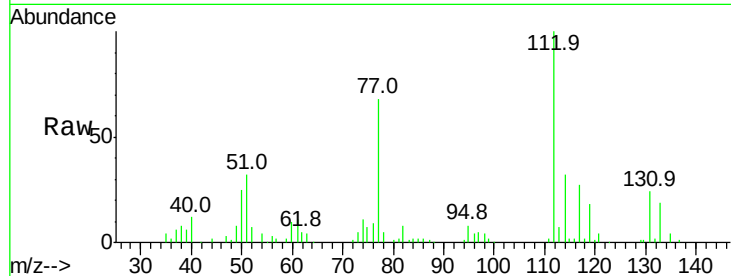




#57
Chlorobenzene
Concen: 0.598 ppbv
RT: 12.30 min Scan# 2911
Delta R.T. -0.01 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

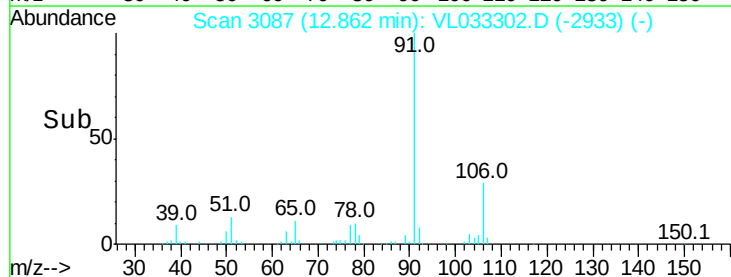
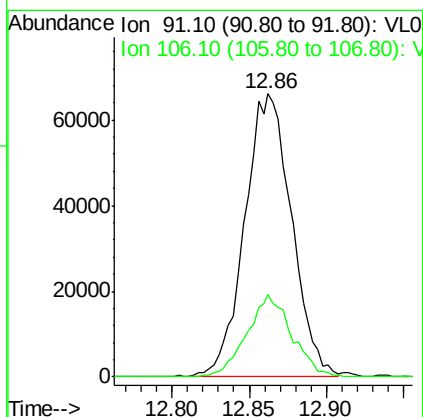
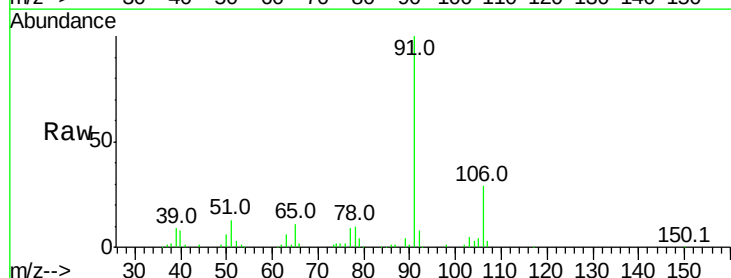
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

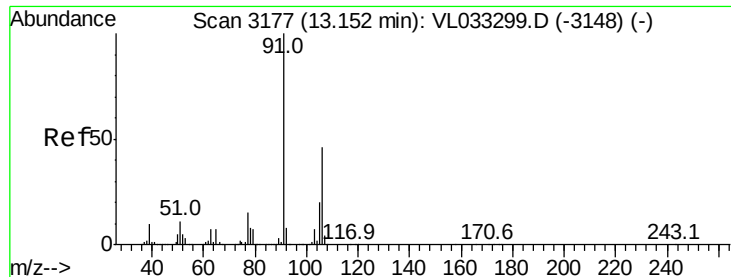
Tgt Ion: 112 Resp: 88110
Ion Ratio Lower Upper
112 100
77 67.6 54.7 82.1
114 32.4 29.6 36.2



#58
Ethyl Benzene
Concen: 0.518 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. -0.00 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Tgt Ion: 91 Resp: 139206
Ion Ratio Lower Upper
91 100
106 28.9 23.8 35.6

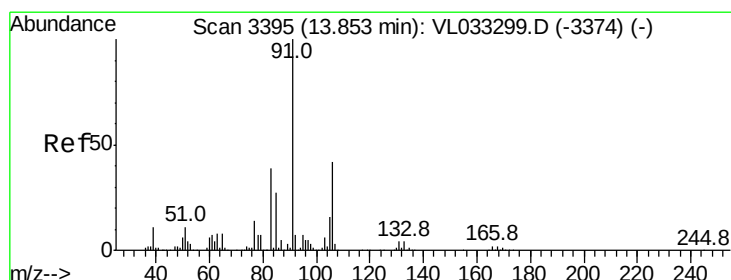
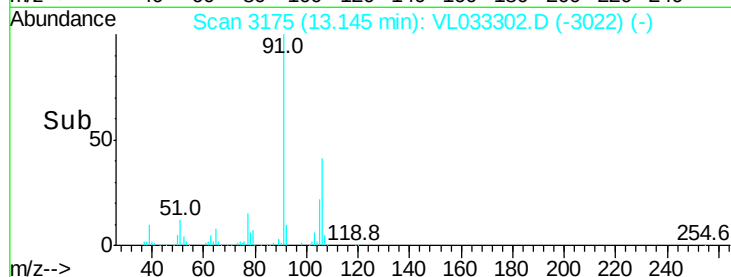
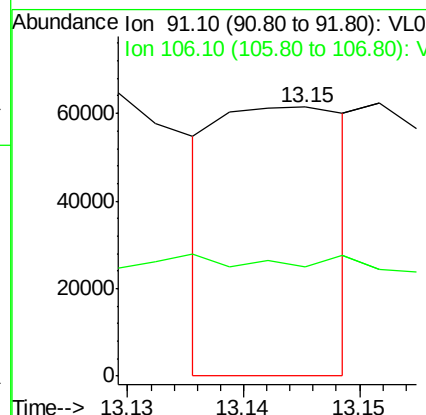
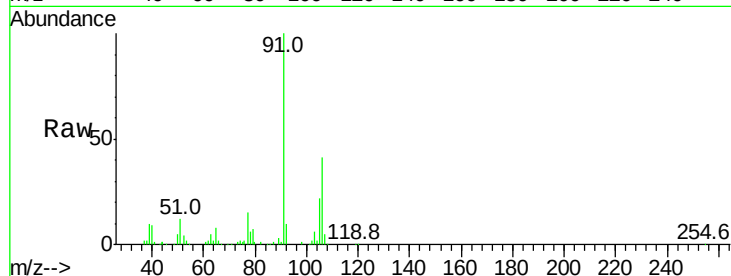




#59
m/p-Xylene
Concen: 0.208 ppbv
RT: 13.15 min Scan# 3175
Delta R.T. -0.01 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

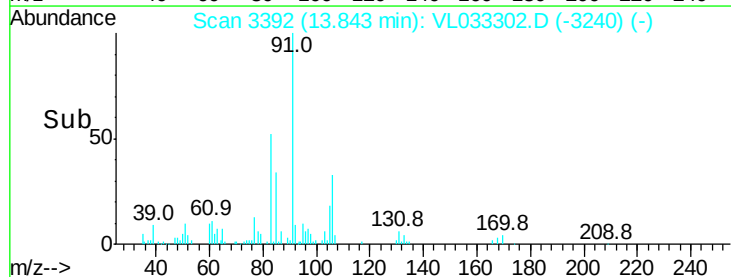
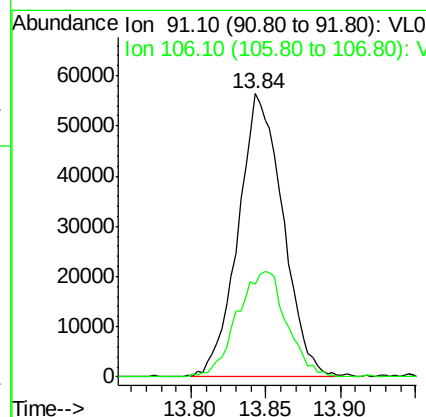
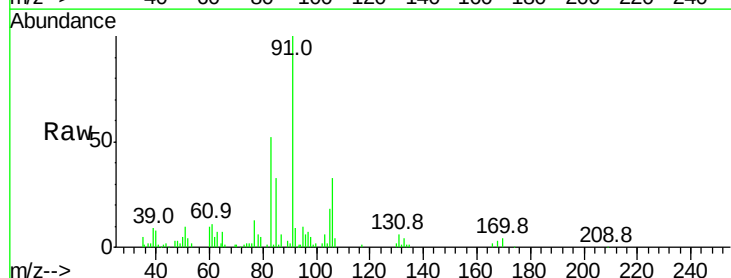
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

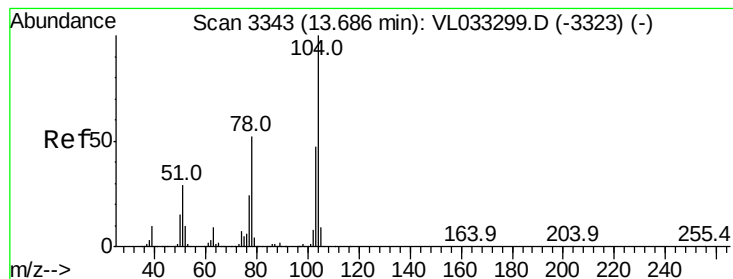
Tgt Ion: 91 Resp: 46755
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0



#60
o-Xylene
Concen: 0.543 ppbv
RT: 13.84 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL033302.D
Acq: 13 Mar 2019 18:27

Tgt Ion: 91 Resp: 117357
Ion Ratio Lower Upper
91 100
106 41.1 21.4 64.3





#61

Styrene

Concen: 0.472 ppbv

RT: 13.68 min Scan# 3341

Delta R.T. -0.01 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

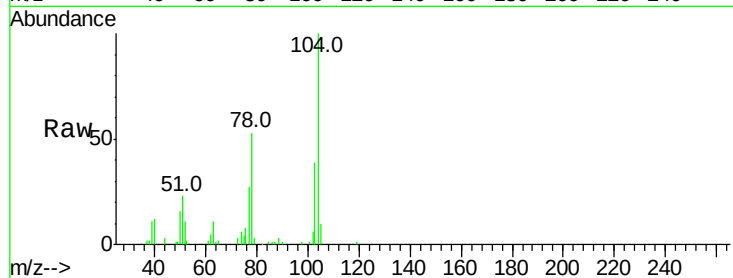
Tgt Ion:104 Resp: 72529

Ion Ratio Lower Upper

104 100

78 56.4 43.3 64.9

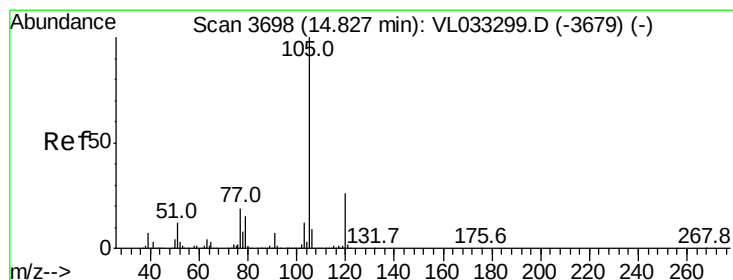
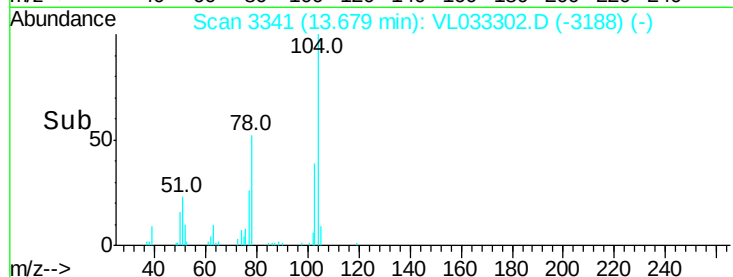
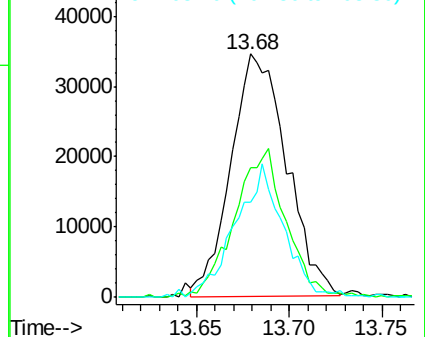
103 47.7 38.2 57.2



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: 0.552 ppbv

RT: 14.83 min Scan# 3698

Delta R.T. -0.00 min

Lab File: VL033302.D

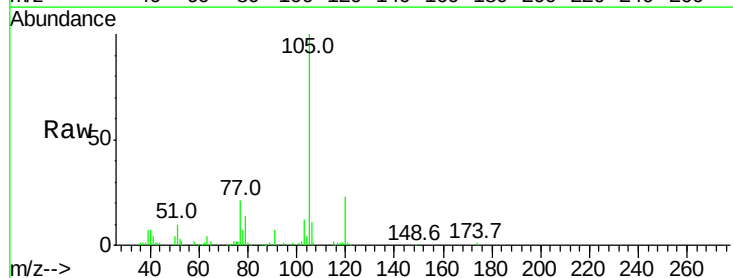
Acq: 13 Mar 2019 18:27

Tgt Ion:105 Resp: 166183

Ion Ratio Lower Upper

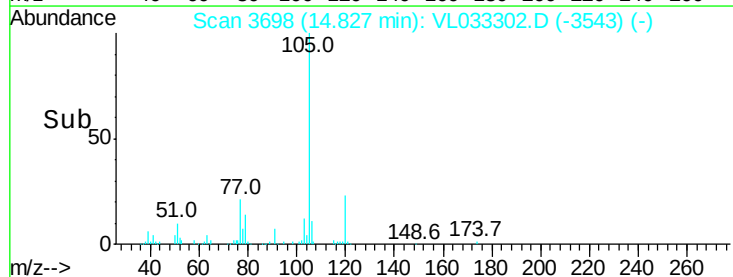
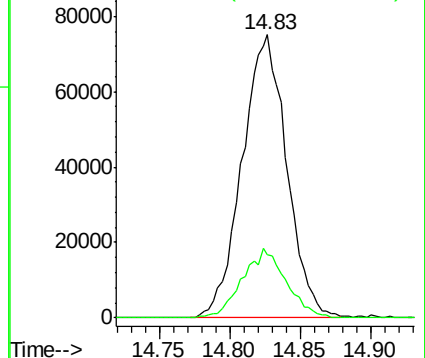
105 100

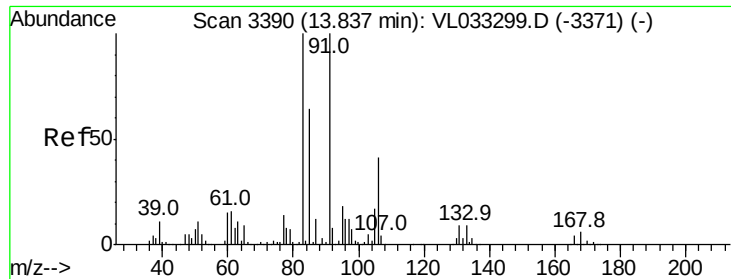
120 24.0 19.9 29.9



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

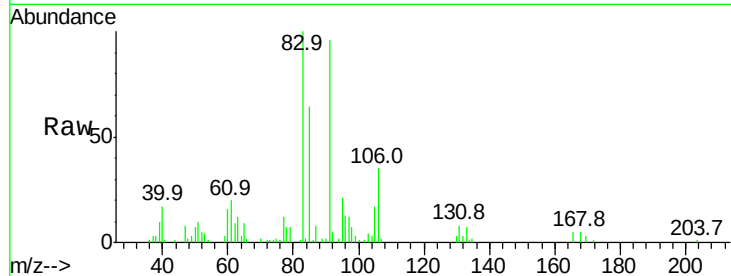




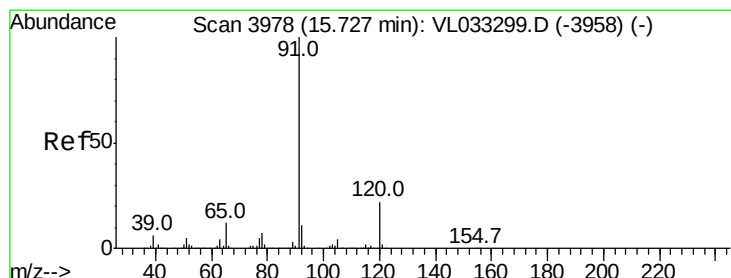
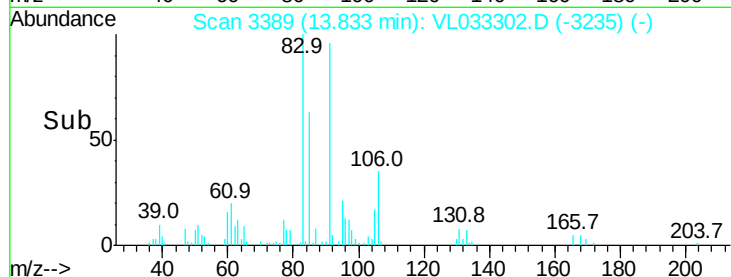
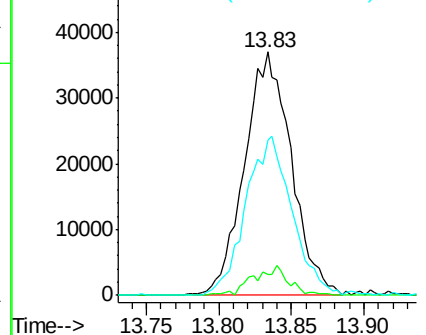
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.573 ppbv
 RT: 13.83 min Scan# 3389
 Delta R.T. -0.00 min
 Lab File: VL033302.D
 Acq: 13 Mar 2019 18:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 83 Resp: 82944
 Ion Ratio Lower Upper
 83 100
 131 9.3 4.6 13.8
 85 64.8 32.5 97.4

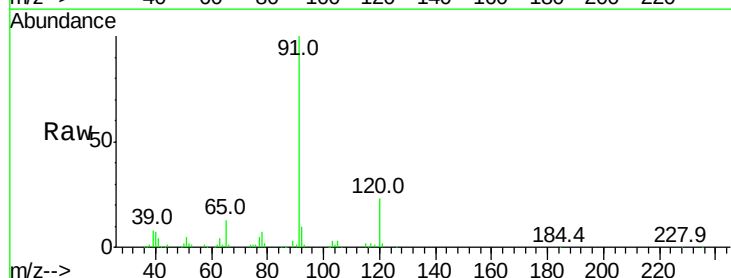


Abundance Ion 83.00 (82.70 to 83.70): VL0
 Ion 131.00 (130.70 to 131.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0

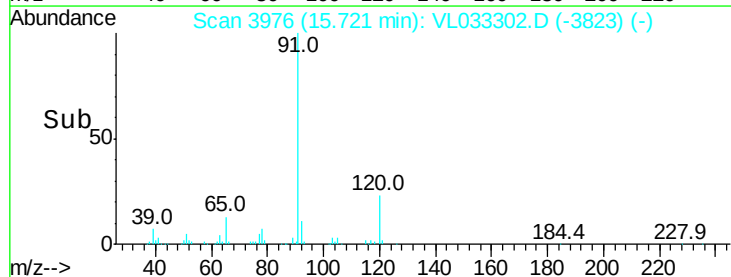
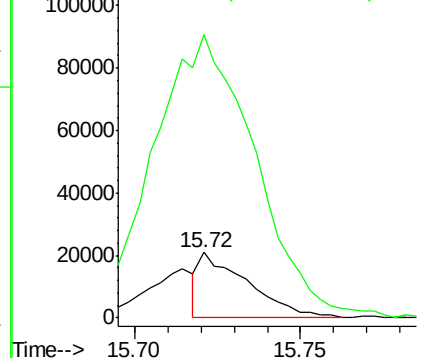


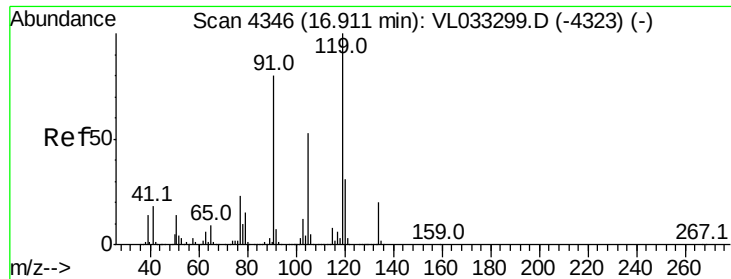
#64
 n-propylbenzene
 Concen: 0.289 ppbv
 RT: 15.72 min Scan# 3976
 Delta R.T. -0.01 min
 Lab File: VL033302.D
 Acq: 13 Mar 2019 18:27

Tgt Ion: 120 Resp: 21409
 Ion Ratio Lower Upper
 120 100
 91 914.7 393.7 590.5#



Abundance Ion 120.20 (119.90 to 120.90): VL0
 Ion 91.10 (90.80 to 91.80): VL0

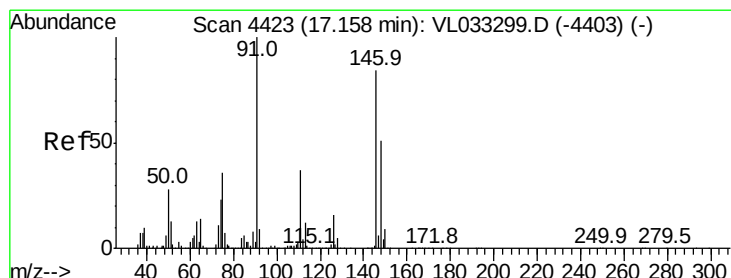
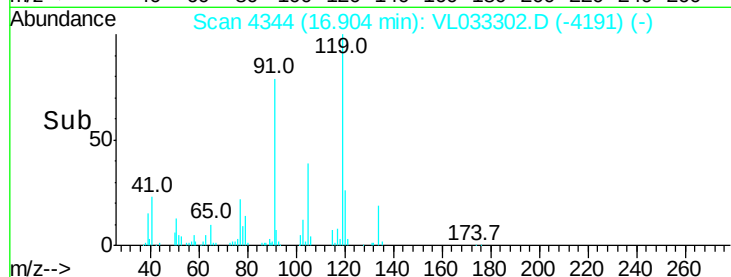
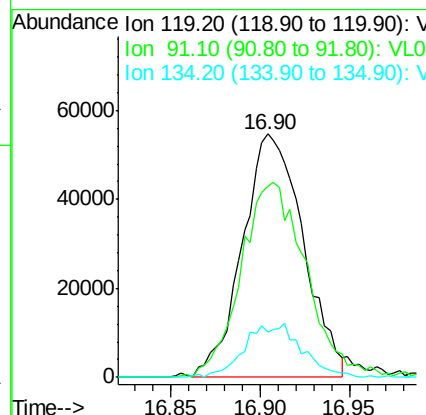
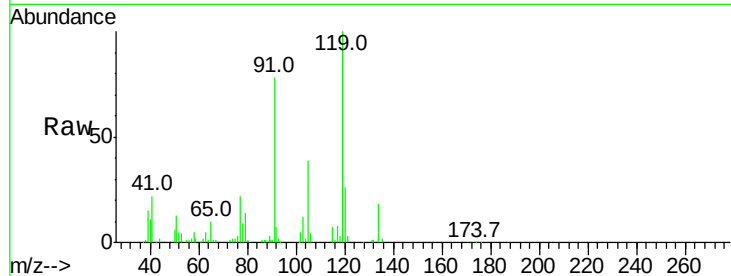




#65
 tert-Butylbenzene
 Concen: 0.510 ppbv
 RT: 16.90 min Scan# 4344
 Delta R.T. -0.01 min
 Lab File: VL033302.D
 Acq: 13 Mar 2019 18:27

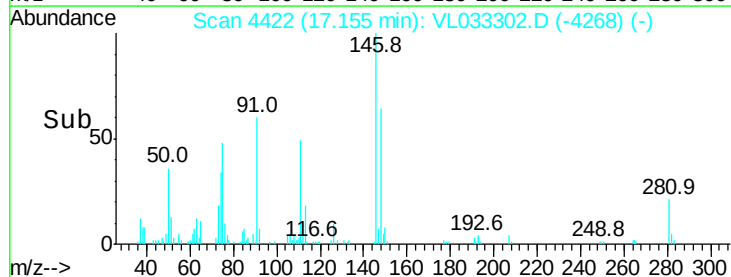
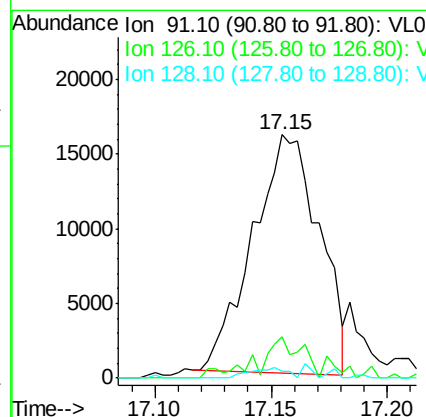
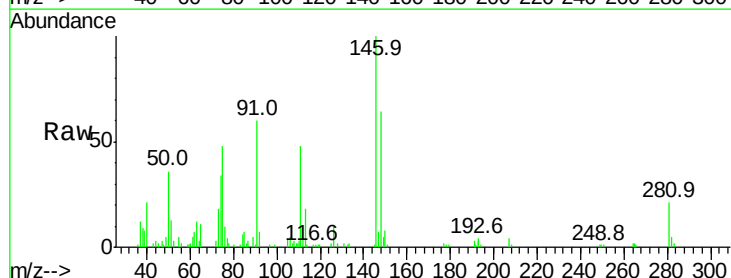
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

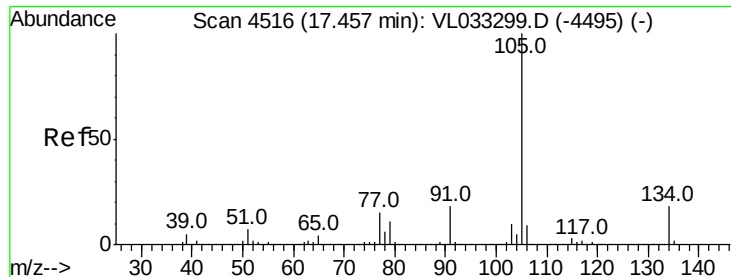
Tgt Ion: 119 Resp: 129666
 Ion Ratio Lower Upper
 119 100
 91 86.7 66.4 99.6
 134 20.8 15.4 23.2



#66
 Benzyl Chloride
 Concen: 0.325 ppbv
 RT: 17.15 min Scan# 4422
 Delta R.T. -0.00 min
 Lab File: VL033302.D
 Acq: 13 Mar 2019 18:27

Tgt Ion: 91 Resp: 31971
 Ion Ratio Lower Upper
 91 100
 126 14.2 12.9 19.3
 128 3.2 4.2 6.2#





#67

sec-Butylbenzene

Concen: 0.262 ppbv

RT: 17.45 min Scan# 4515

Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

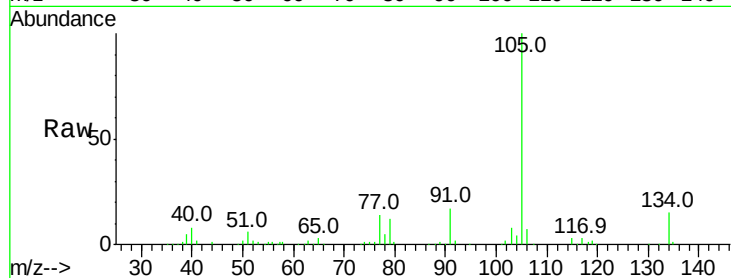
VSTDIC0.5

Tgt Ion:105 Resp: 94783

Ion Ratio Lower Upper

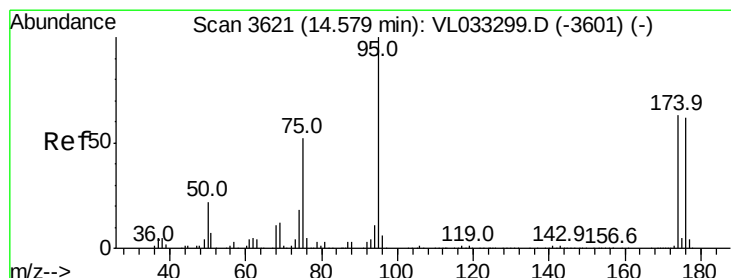
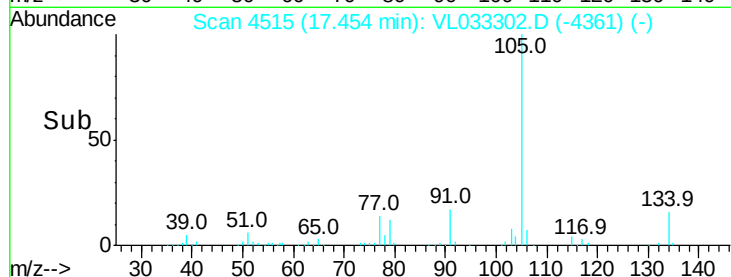
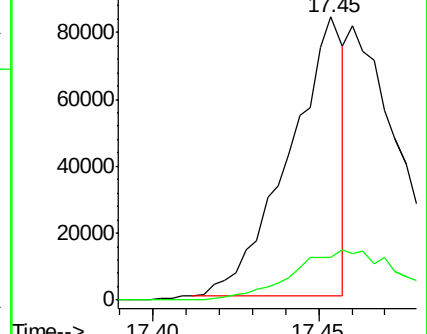
105 100

134 0.0 14.2 21.2#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.251 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

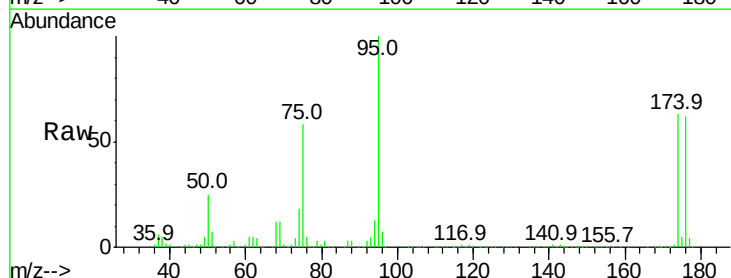
Tgt Ion: 95 Resp: 1547546

Ion Ratio Lower Upper

95 100

174 64.1 51.9 77.9

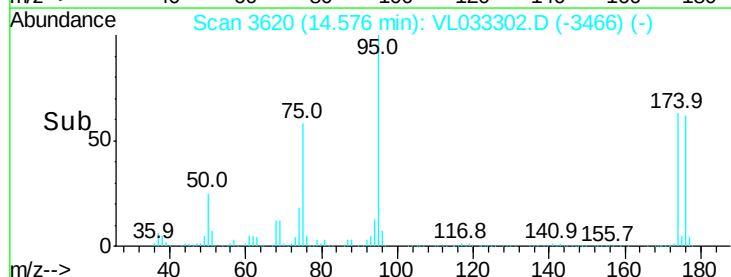
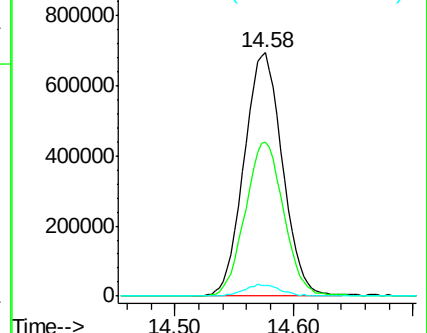
175 4.6 3.9 5.9

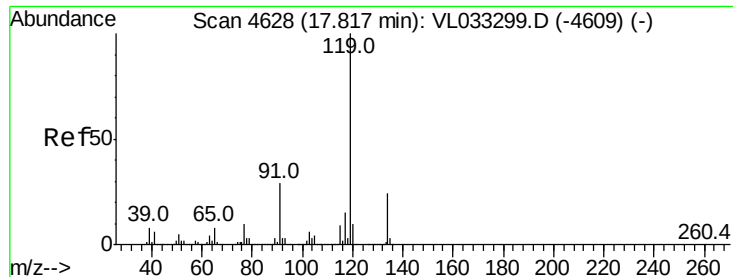


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

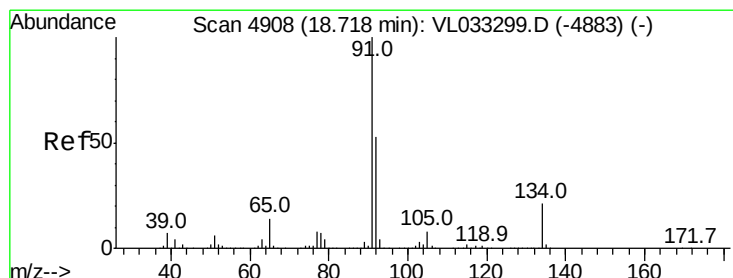
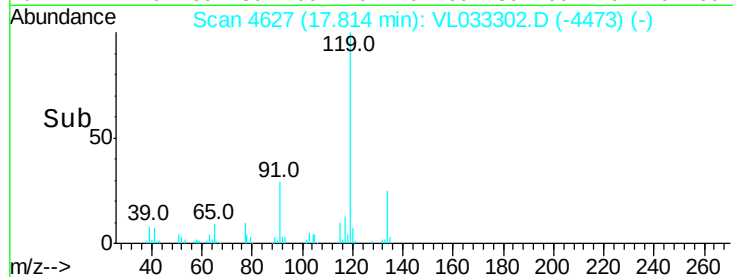
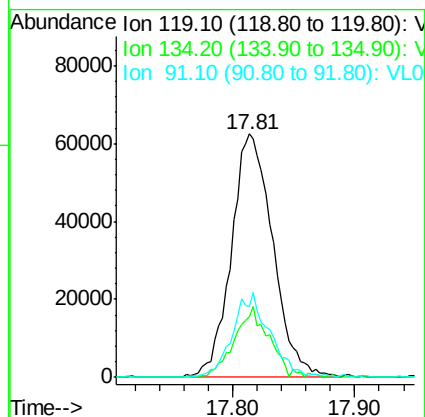
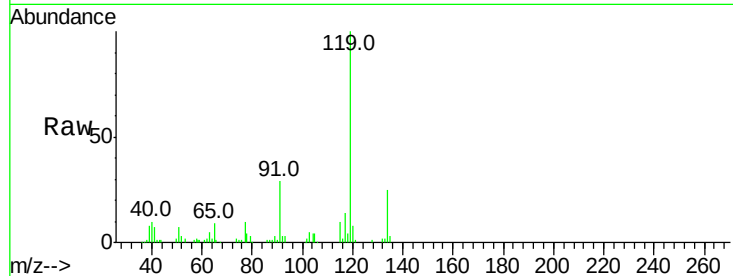




#69
 p-Isopropyltoluene
 Concen: 0.503 ppbv
 RT: 17.81 min Scan# 4627
 Delta R.T. -0.00 min
 Lab File: VL033302.D
 Acq: 13 Mar 2019 18:27

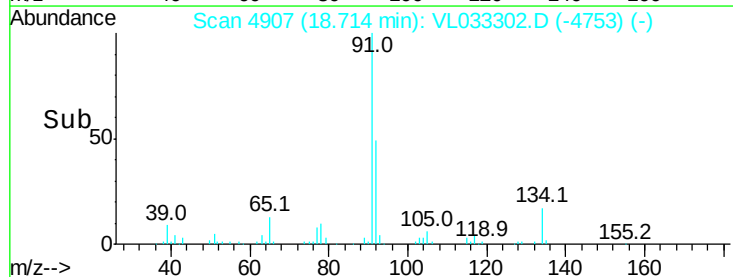
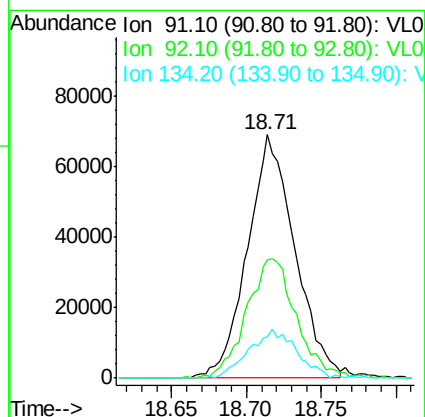
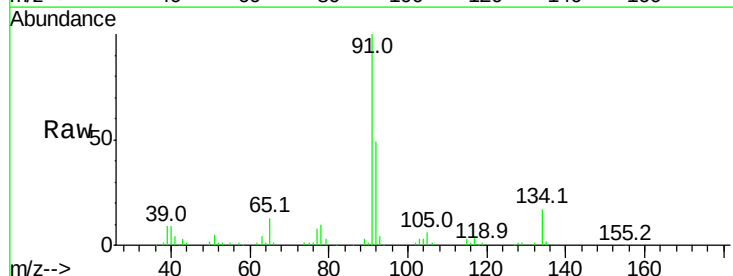
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

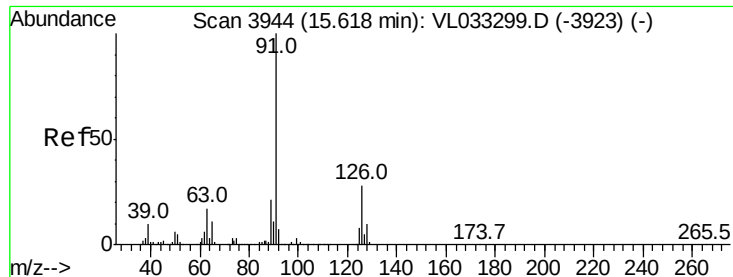
Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.7	19.8	29.6
91	31.8	23.8	35.8



#70
 n-Butylbenzene
 Concen: 0.481 ppbv
 RT: 18.71 min Scan# 4907
 Delta R.T. -0.00 min
 Lab File: VL033302.D
 Acq: 13 Mar 2019 18:27

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.2	42.6	63.8
134	20.4	17.4	26.0





#71

2-Chlorotoluene

Concen: 0.530 ppbv

RT: 15.61 min Scan# 3943

Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

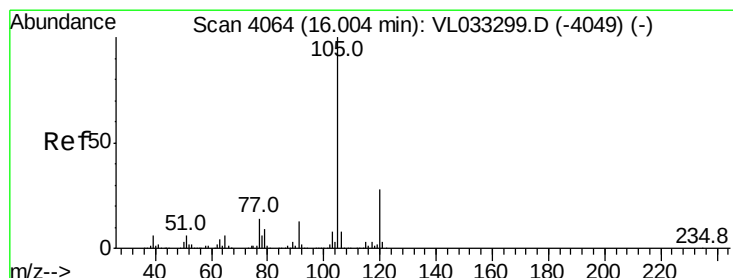
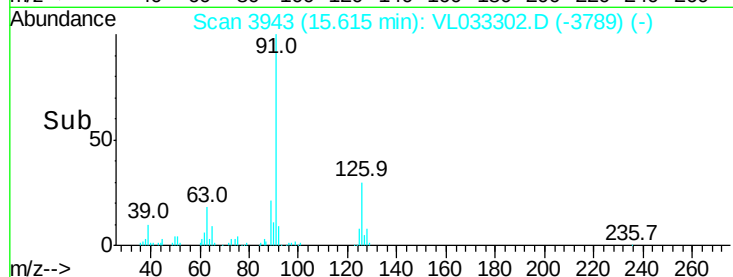
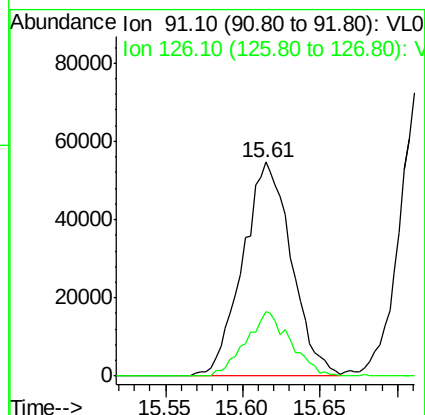
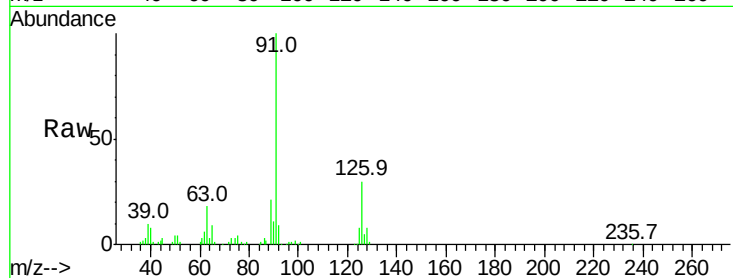
VSTDIC0.5

Tgt Ion: 91 Resp: 120226

Ion Ratio Lower Upper

91 100

126 27.7 11.8 47.0



#72

4-Ethyltoluene

Concen: 0.482 ppbv

RT: 16.00 min Scan# 4063

Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Tgt Ion: 105 Resp: 112392

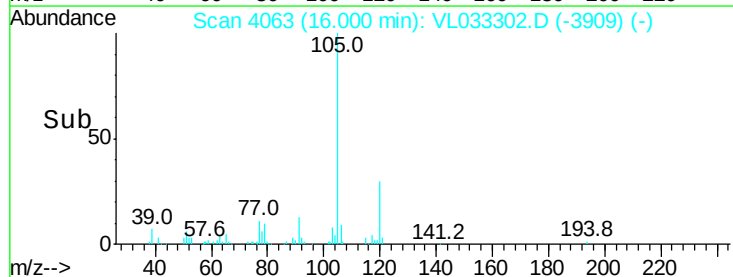
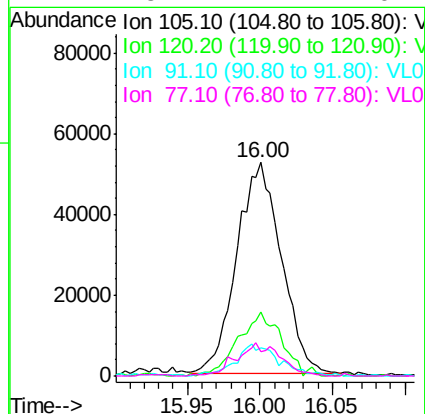
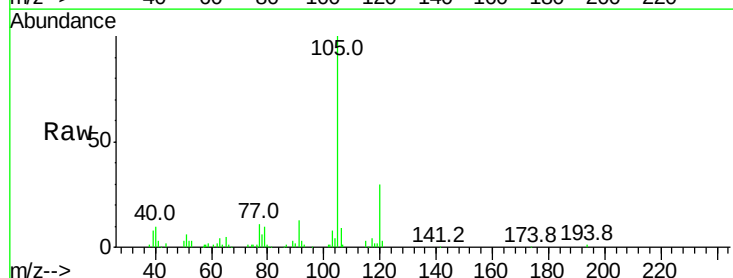
Ion Ratio Lower Upper

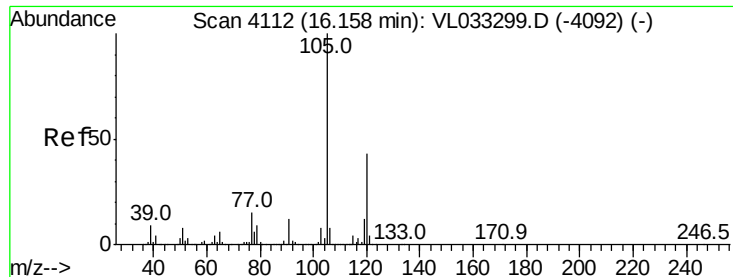
105 100

120 29.5 22.7 34.1

91 14.9 10.3 15.5

77 15.4 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 0.488 ppbv

RT: 16.16 min Scan# 4112

Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

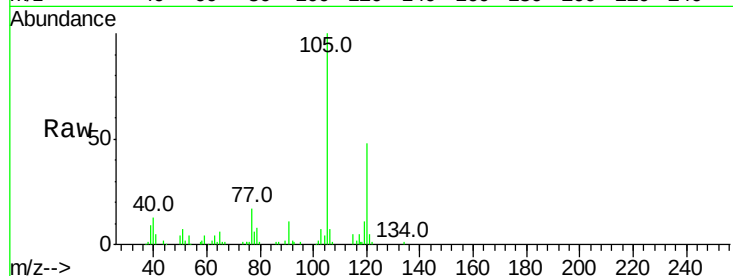
VSTDIC0.5

Tgt Ion:105 Resp: 107219

Ion Ratio Lower Upper

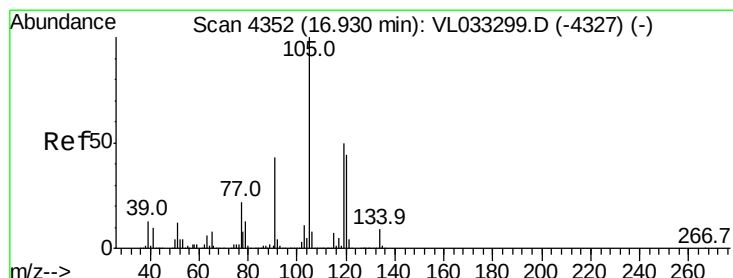
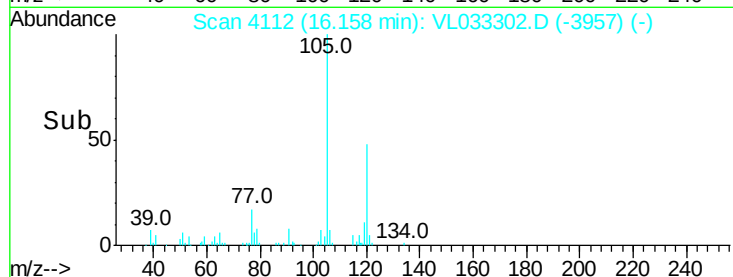
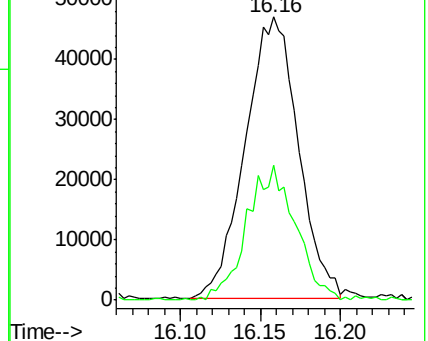
105 100

120 47.9 34.6 52.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.493 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. -0.01 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Tgt Ion:105 Resp: 110402

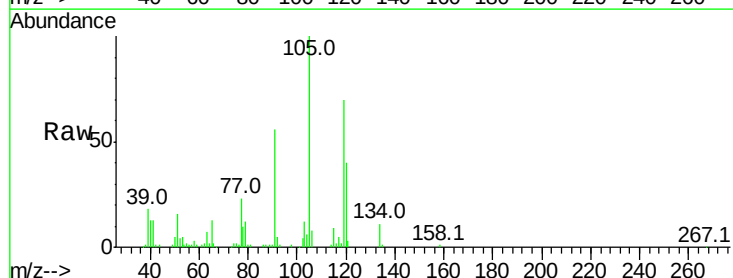
Ion Ratio Lower Upper

105 100

120 42.9 35.2 52.8

91 54.7 34.0 51.0#

77 23.0 17.4 26.2

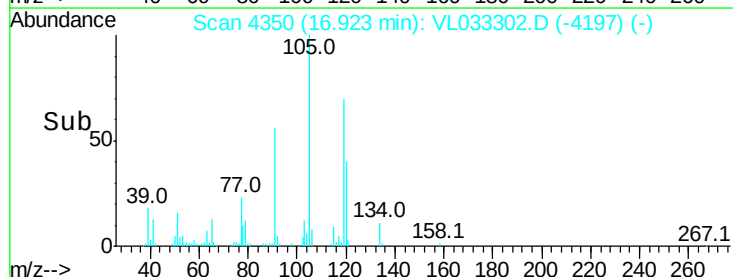
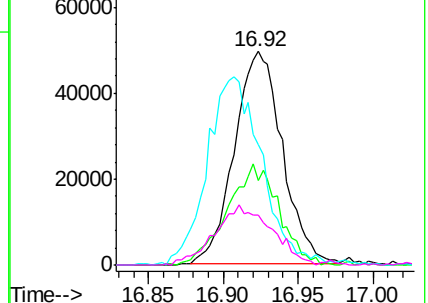


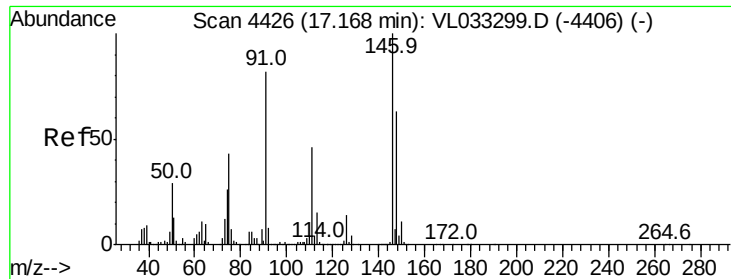
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 0.341 ppbv

RT: 17.16 min Scan# 4425

Delta R.T. -0.00 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

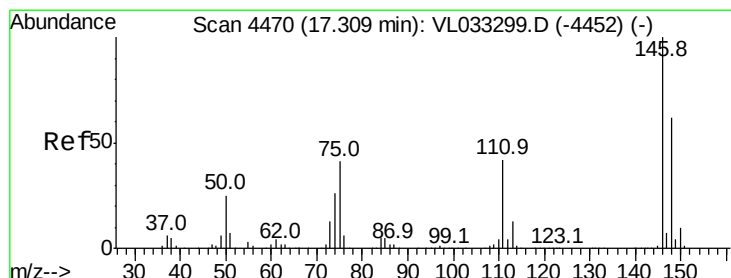
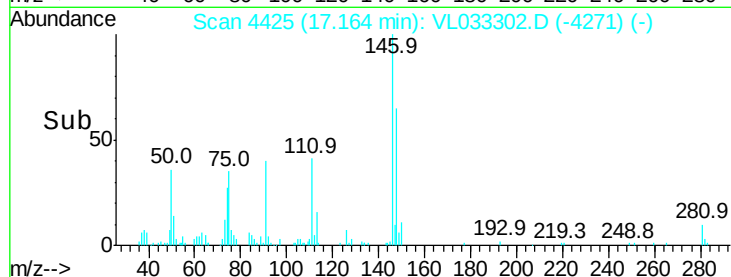
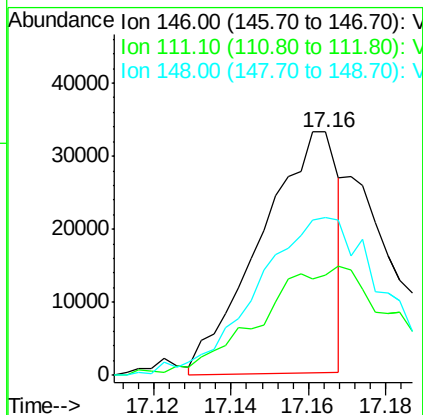
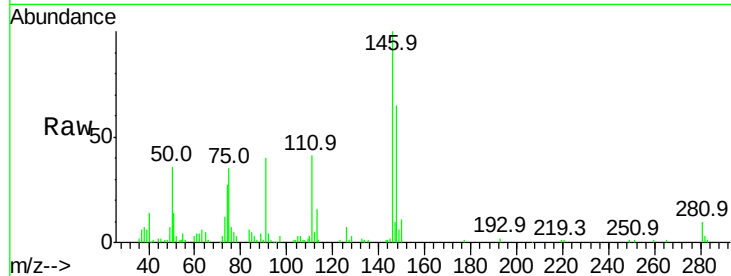
Tgt Ion:146 Resp: 45817

Ion Ratio Lower Upper

146 100

111 0.0 22.9 68.7#

148 109.9 32.4 97.0#



#76

1,4-Dichlorobenzene

Concen: 0.326 ppbv

RT: 17.30 min Scan# 4467

Delta R.T. -0.01 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

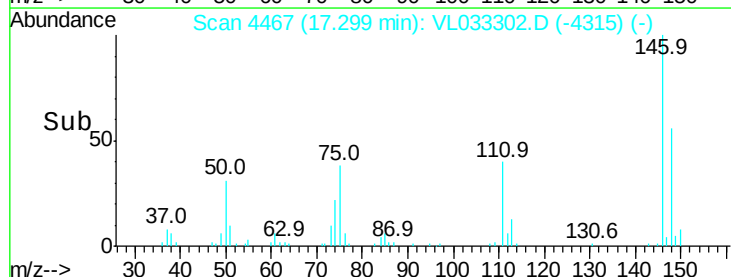
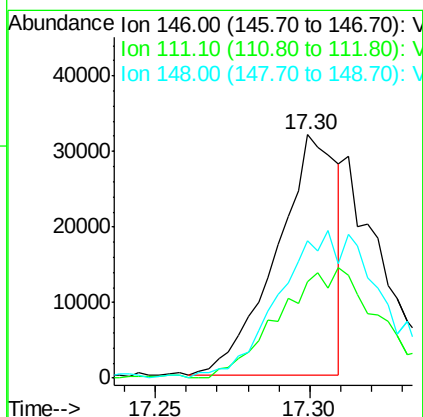
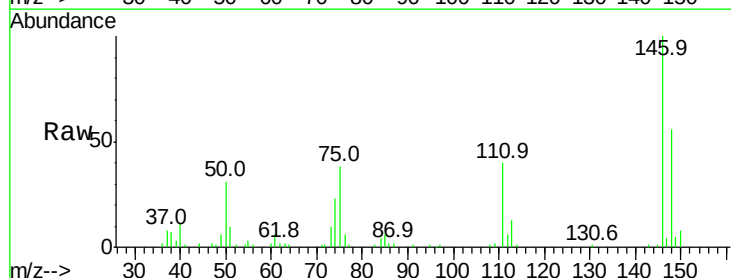
Tgt Ion:146 Resp: 43224

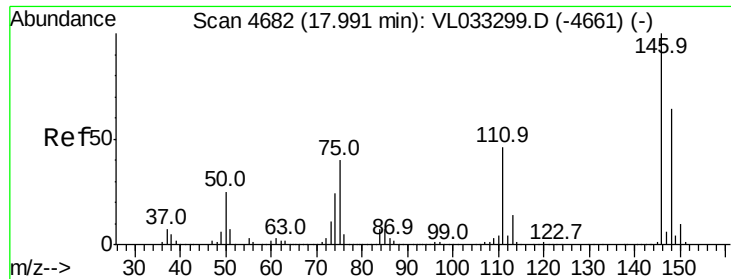
Ion Ratio Lower Upper

146 100

111 0.0 21.9 65.5#

148 0.0 31.8 95.4#

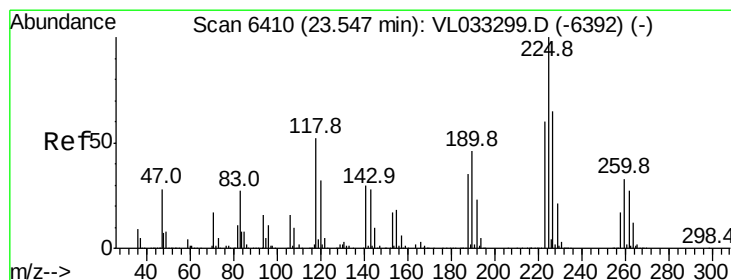
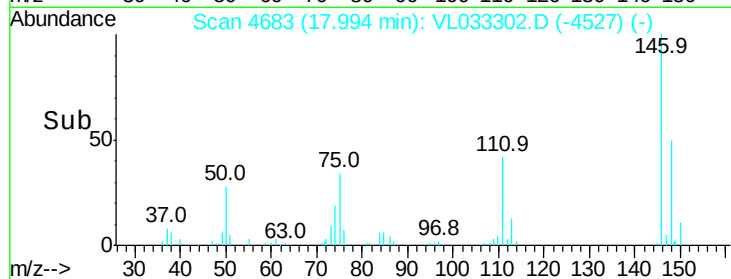
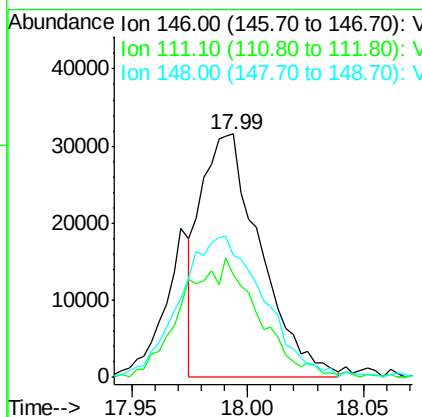
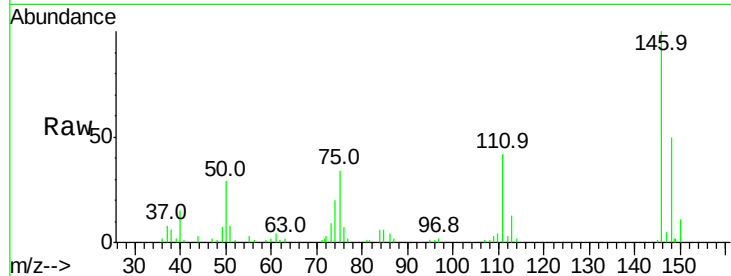




#77
 1,2-Dichlorobenzene
 Concen: 0.423 ppbv
 RT: 17.99 min Scan# 4683
 Delta R.T. 0.00 min
 Lab File: VL033302.D
 Acq: 13 Mar 2019 18:27

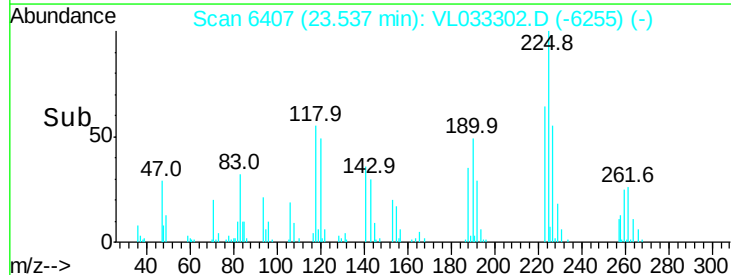
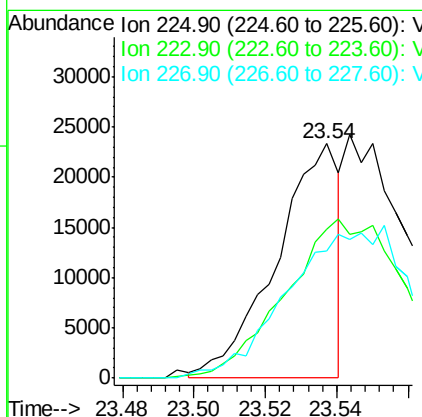
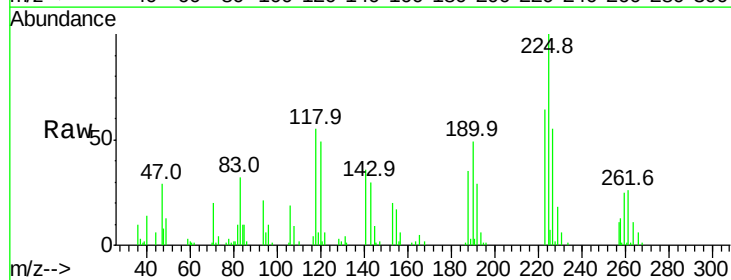
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

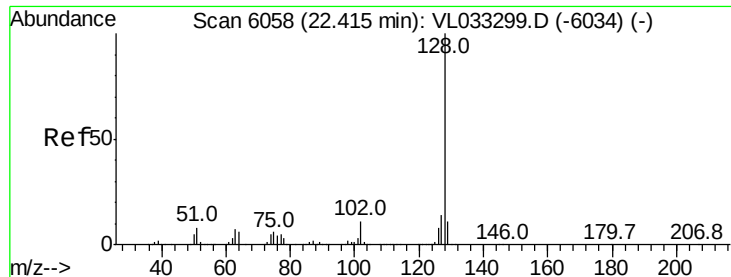
Tgt Ion:146 Resp: 56438
 Ion Ratio Lower Upper
 146 100
 111 63.6 23.2 69.6
 148 82.4 32.0 96.0



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.256 ppbv
 RT: 23.54 min Scan# 6407
 Delta R.T. -0.01 min
 Lab File: VL033302.D
 Acq: 13 Mar 2019 18:27

Tgt Ion:225 Resp: 28520
 Ion Ratio Lower Upper
 225 100
 223 0.0 50.3 75.5#
 227 0.0 51.2 76.8#





#79

Naphthalene

Concen: 0.072 ppbv

RT: 22.40 min Scan# 6054

Delta R.T. -0.01 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

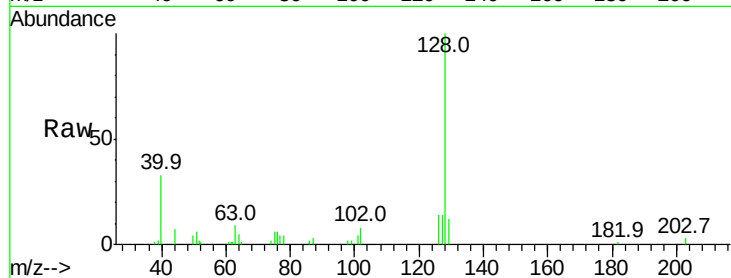
Tgt Ion:128 Resp: 17447

Ion Ratio Lower Upper

128 100

127 13.6 10.8 16.2

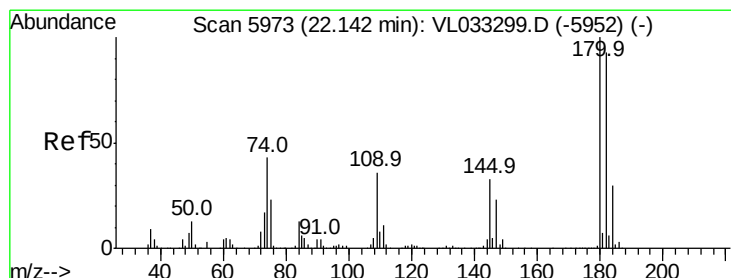
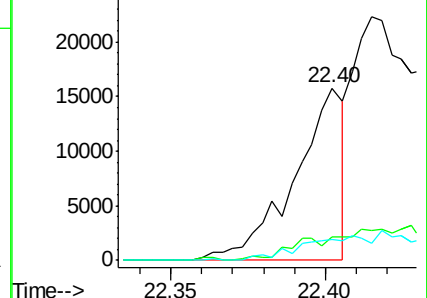
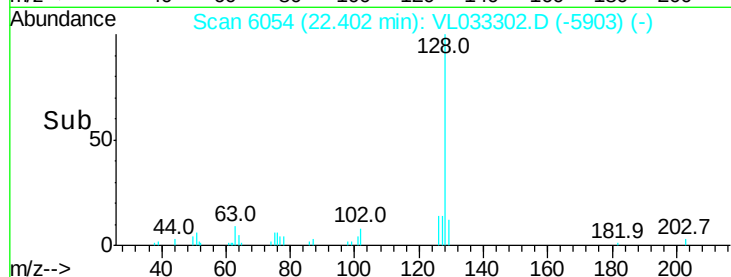
129 11.8 8.9 13.3



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#81

1,2,4-Trichlorobenzene

Concen: 0.116 ppbv

RT: 22.13 min Scan# 5968

Delta R.T. -0.02 min

Lab File: VL033302.D

Acq: 13 Mar 2019 18:27

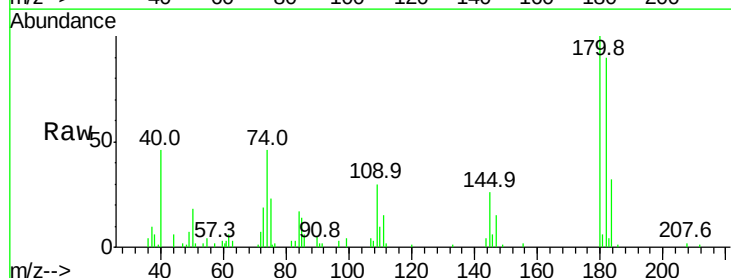
Tgt Ion:180 Resp: 14804

Ion Ratio Lower Upper

180 100

182 0.0 76.4 114.6#

184 0.0 24.6 36.8#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

